PROUDLY MADE IN india

# BOROSIL®

## MANUFACTURERS OF

LABORATORY GLASSWARE | EQUIPMENT | ANALYTICAL VIALS | PROCESS SYSTEMS




enabling the future of science

# PRICELIST 2023-24

Effective from 1st April 2023

BOROSIL® enabling the future of science | BOROSIL KLASSPACK® pharmaceutical packaging | LABQUEST BY BOROSIL® | BOROSIL® TECHNOLOGIES | BOROSIL® PROCESS SCIENCES | BOROSIL® Love For Science

# MISSION & VISION

Our mission is to emerge as the preferred vendor for laboratory glassware and to develop a complementary range of products for the laboratory.

To enjoy this fascinating journey while enhancing marketing capabilities, continuously improving our quality and services and investing in our people while being socially responsible and yielding profits for our stakeholders.

# Message from the Managing Director's Desk



Dear Customer,

My warmest greetings.

The release of our price list each year is a joyful moment for us. It is the culmination of a year of hard work in understanding your needs and trying our best to fulfill them.

**BOROSIL** has been the preferred specialty glass of choice for the scientific and industrial community for over 60 years. We are proud to be a member of the scientific community and privileged to have been working closely with scientists, researchers, chemists and industry experts to provide products and innovative solutions & in their pursuit of excellence and discovery.

This year, we have made major investments in the high potential Laboratory Instrumentation and Pharmaceutical Primary Packaging businesses. With a new state of the art facility for Borosil Technologies Limited in Pune, we are equipped to manufacture world class, smart, rugged and practical laboratory equipment. Our newly launched Bottle Top Dispensers empower every lab user with safe and precise handling of various reagents, solvents and acids.

A major highlight has been the inception of BOROSIL PROCESS SCIENCES that provides sophisticated offerings for chemical synthesis & process development from bench top reactors to complex pilot plants with programmable controls.

To provide laboratory professionals in India the finest quality filter papers, **BOROSIL** announced its collaboration with the pioneers in filter paper making, Hahnemühle FineArt GmbH.

Our decision to set up B. L. Kheruka Centre for Research & Development at Pune underlines the central role which we expect Research & Development to play in our business going forward.

We have invested in new European machinery to enhance our capacity at Borosil Klasspack, Nashik. With our growing operations and scale, we also inaugurated a new future ready warehouse at Bharuch this year. In glassware, we've made major investments in our factories for laser marking of LIMS compatible QR code which will transform your laboratory into a smart digitized lab. This detailed Price List will ensure you are able to search the exact products of your choice based on the application, usage and your preference.

I am glad to share that our businesses have achieved good growth across regions in India. Internationally too, we have performed well with significant business growth and expansion of our global footprint. We look forward to the upcoming strategic developments that pave the way for the Borosil Scientific business.

With this, I would like to thank each one of you for your continued support and being part of our success story. We look forward to achieving even greater milestones ahead in collaboration with you.

Wishing you success and prosperity in FY23-24 and beyond!

Yours truly,
**Shreevar Kheruka**
Managing Director

# BOROSIL®

## Quality Policy

"We, at Borosil Limited, are committed to understanding our customers' needs and fulfilling the same on time every time.

By bringing the voice of our customers inside the organization, we strive to be our customers' #1 preferred brand.

We are committed to achieving the highest level of customers satisfaction through improvements in quality of our products & services.

We believe in continual improvements and innovation in our business and manufacturing processes. We strive to ensure that our team achieves the highest quality output in the most efficient manner possible.

This will be achieved by our total commitment to:

- Communication with our customers to understand their needs
- Continuously updating our technical competence, system and processes
- Enhancing the expertise of our people by periodic training & reviews.
- Preserving our corporate values"

This policy will be available to all interested parties where appropriate

**Shreevar Kheruka**
Managing Director

Date : 12.02.2020

# WHY BOROSIL®

## # 1 Laboratory glassware

- Three out of four glassware articles used in laboratories across India are Borosil branded
- Over 6 decades of trust

## Certifications

- Certified for ISO 9001:2015 quality management system for Scientific Laboratory Glassware & Laboratory Equipment / Instrument
- NABL ISO/IEC :17025, 2017 accredited laboratory
- Represents India on ISO/TC 48 – Technical committee for laboratory glassware and apparatus

## Quality and Compliance

- Advanced computer controlled machines for calibration
- Laser sensing of meniscus and real-time image of meniscus provided on calibration certificate
- Compliance to international standards ISO/DIN/ASTM for dimensions and tolerances

## Infrastructure

- State-of-the-art blowing facility having 700+ skilled blowers
- Equipped with automated blank manufacturing machines
- Annealing process by unique Lehr technology
- Advanced laser machines for laser marking of LIMS compatible QR code and UID code

## Unmatched Service Levels

- Network of 150 Channel Partners PAN India
- 4 warehouses across the country
- 96% of the time same day delivery
- Team of 80+ sales ambassadors PAN India
- Customer-centric approach

welcome to
# BOROSIL®

## Corporate Profile

The BOROSIL Group comprises of

- Borosil Limited
- Borosil Renewables Limited
- Klass Pack Ltd.
- Borosil Technologies Ltd.

**Borosil Limited** was established in December 1962 in collaboration with Corning Glass Works, USA, to manufacture borosilicate low expansion glass. In December 1988, Corning divested its shareholding to the current Indian promoters, who have been leading manufacturers of sheet glass in India, since 1961.

BOROSIL is the market leader in laboratory glassware and microwavable kitchenware in India.

- **1962**
  Borosil is born as a Public Limited Company. The company begins to sell products under the "Borosil" brand
- **1963**
  Corning Glass Works, USA joins Borosil Ltd as a Technical and Financial Collaborator
- **2008**
  Vyline Glassworks sets up a state of the art manufacturing facility for laboratory and consumer glassware in Bharuch, Gujarat
- **2013**
  Vyline sets up a second manufacturing unit for laboratory glassware in Tarapur, Maharashtra
- **2015**
  Borosil launches "Labquest"- its entry into laboratory instruments
- **2016**
  Borosil acquires controlling interest in Klasspack Pvt. Ltd., in Nashik, Maharashtra and enters the pharmaceutical primary packaging market
  Borosil acquires Hopewell Tableware Pvt. Ltd in Jaipur, Rajasthan.
- **2017**
  Gujarat Borosil produces the world's first fully tempered 2mm solar glass, facilitating a revolutionary 30% increase in solar module efficiency
- **2019**
  Borosil Technologies Limited with a mandate to research, design, develop laboratory equipment (Labquest Brand) is set up at Pune, India



BOROSIL® enabling the future of science | BOROSIL KLASSPACK® pharmaceutical packaging | LABQUEST BY BOROSIL® | BOROSIL® TECHNOLOGIES | BOROSIL Love For Science

# #WeAreBOROSIL

On a mission to be India's most customer centric company in India

## Science & Industrial Products Division



# 1

Laboratory glassware

Borosil's Scientific and Industrial Products Division offers an entire gamut of the finest quality scientific and laboratory glassware, laboratory instruments and primary pharmaceutical packaging. Borosil Technologies Limited located at Hinjewadi, Pune is a 100% owned subsidiary of Borosil Limited which is mandated to develop Laboratory equipments under Labquest brand. Borosil Klass Pack Ltd., a subsidiary of Borosil Limited, is one of India's leading manufacturers of Glass Ampoules and Tubular Glass Vials of USP Type 1 that are widely used as primary packaging materials by pharmaceutical companies for their life-saving drugs. We also manufacture a wide portfolio of Chromatography vials. Borosil Process Sciences, a recent introduction in the portfolio provides sophisticated offerings for chemical synthesis & process development from bench top reactors to complex pilot plants with programmable controls. This range of over 3000 products from glassware, equipment and pharma packaging finds application across diverse disciplines such as Quality Control in pharmaceutical industries, research institutes, food and soil testing, microbiology, biotechnology, agriculture and many more. Newest introduction Symbolising quality, accuracy and dependability since six decades, Borosil has earned the trust and unwavering loyalty of leading pharmaceutical companies and R&D laboratories, as well as scientific, health and educational institutions.

## Consumer Division



# 1

Microwavable in kitchenware

For over half a century, Borosil has been the go-to brand for heat-proof glassware in India. Synonymous with quality and durability, Borosil is the trusted choice for consumers across the country. But Borosil is much more than just glassware. From Larah Opal dinner sets to kitchen appliances, storage products, and even glass lunch boxes, Borosil has expanded its offering to cater to the ever-evolving needs of modern-day consumers.

And when it comes to small appliances, Borosil has truly outdone itself. Juicer Mixer Grinders, Hand Mixers, Oven Toaster Grillers, Toasters, Blenders, and Rice Cookers – Borosil has it all. And the best part? Each appliance is backed by the brand's nationwide customer service network, ensuring that you're never inconvenienced.

But that's not all. Larah Opal glass products are a perfect blend of elegance and performance, making them an excellent choice for anyone looking to elevate their dining experience. With contemporary designs, a range of sizes and colors, and the durability of Opal glass, these products are sure to impress.

At Borosil, quality and trust are our top priorities. That's why we go the extra mile to ensure that our products always perform beautifully. Visit www.myborosil.com to discover our entire range of products, and see how we can make every day better for you.

## Solar Division



# 1

Solar glass

Borosil Renewables Ltd. Is the first Solar glass manufacturer in India, and is part of the 'Borosil group, which has been engaged in manufacturing a wide range of consumer-ware products and scientific and laboratory glass/glassware for over five decades.

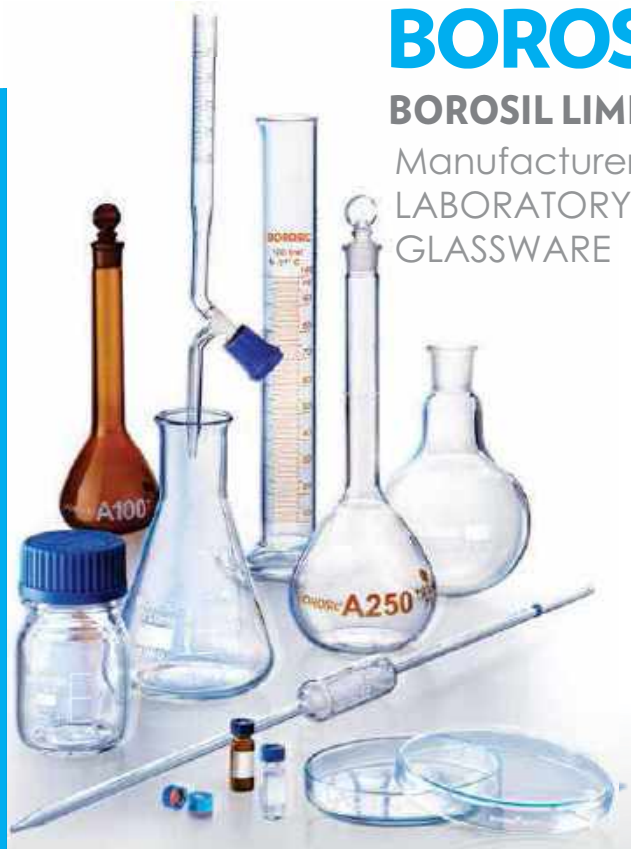
Our State-of-the-art manufacturing facility is spread over around 100 acres at Bharuch, Gujarat with Solar glass production and processing capacity of 1000 TPD equivalent to 6 GW per annum, and Recently Borosil Renewables Ltd. acquired Europe's largest manufacturer of solar glass the Interfloat Group which consists of Glass Manufacturing Brandenburg (GMB), located in Tschernitz, Germany, and Interfloat Corporation, based in Liechtenstein. GMB operates a solar glass plant with a production of 300 TPD (Tons per Day). With this acquisition, BRL's solar glass capacity has grown to 1300 TPD.

The company has a strong focus on innovation and is known for its pioneering achievements like the development of the World's First fully tempered 2 mm thick solar glass, solar glass with the lowest iron content giving the highest glass efficiency, and the first company in the World to successfully be able to remove an extremely hazardous substance – "Antimony" - from its solar glass, etc. The company has products like Selene: an Anti-glare solar glass suitable for PV installations near airports, and Shakti: a very high-efficiency solar glass in a matt-matt finish.

# BOROSIL®

BOROSIL LIMITED, with decades of service to the scientific community, was established in 1962 in collaboration with Corning Glass Works,USA to manufacture 3.3 low expansion Borosilicate glass (USP Type1). BOROSIL group is today the leading manufacturer of specialty glassware in India, and now brings to you a wide range of products - including all Laboratory Glassware, Screw Cap Bottles, precisely calibrated Volumetric items as per IS, DIN, ISO and ASTM standards with a state of the art NABL accreditation (ISO/IEC 17025:2017 ) facility. Along with that we cater to pharmaceutical primary packaging and chromatography vials segments. We also have a wide portfolio of laboratory benchtop equipment.

Borosil has stood for high quality, perfect accuracy and dependability for everybody in the field of science. BOROSIL currently exports to over 70 countries and this, in itself is a testimonial of the quality and service standards we provide.




BOROSIL®

## BOROSIL LIMITED

Manufacturers of LABORATORY GLASSWARE

Borosil's offers an entire gamut of the finest quality scientific and laboratory glassware through a pan India network of 150 dealers. This includes volumetric ware, laboratory bottles, general laboratory glassware, glass filtration products, glassware for microbiology and lab accessories. This range of over 2000 products finds application in across diverse disciplines such as Quality Control in pharmaceutical industries, food and soil testing, Microbiology, Biotechnology, Photo Printing, Process Systems and Lighting. Symbolising quality, accuracy and dependability since six decades, Borosil has earned the trust and unwavering loyalty of leading pharmaceutical companies and R&D laboratories, as well as scientific, health and educational institutions.



BOROSIL KLASSPACK®
pharmaceutical packaging

Manufacturers of
AMPOULES and
TUBULAR
GLASS VIALS




Klass Pack Ltd., now a subsidiary of Borosil Limited, is one of India's leading manufacturers of Glass Ampoules and Tubular Glass Vials of USP Type 1 that is widely used as primary packaging materials by pharmaceutical companies for their life-saving drugs. The factory is located at Nasik, around 180 kms from Mumbai.

Klass Pack Ltd. was established in 1994 and quickly became a leader in the Pharmaceutical Packaging segment. Borosil acquired Klasspack in 2016 and combined its technological expertise in specialty glass production with Klasspack's experience in world class glass ampoule and tubular glass vial manufacturing to establish its leadership in the fast-growing Pharmaceutical Packaging segment.



BOROSIL®
TECHNOLOGIES

Manufacturers of
LABORATORY
EQUIPMENT

LABQUEST
BY BOROSIL®



Borosil Technologies Limited is located at Hinjewadi, Pune and is a 100% owned subsidiary of Borosil Limited. Borosil Technologies Limited is mandated to develop Laboratory equipment which is offered by Borosil Limited branded as Labquest. Borosil Technologies Limited is equipped with Industrial design, Mechanical design, Embedded, Electronic, Software design capabilities, modern Assembly lines, Prototyping facilities, Service Center and an Application Lab.Products developed and produced by Borosil Technologies Limited include Water Baths, Dry Baths, Nitrogen Estimation Systems, Stirrers, Vortex Mixers, Glass care equipment. All products are designed to be SMART, RUGGED & PRACTICAL.



# Certifications

Certified for ISO 9001: 2015 Quality Management System, DIN EN ISO 14001: 2015 Environmental Management System and DIN ISO 45001: 2018 Occupational Health & Safety Management System for Scientific Laboratory Glassware & Laboratory Equipment



CERTIFICATE

BOROSIL

Borosil Limited

ISO 9001:2015



CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

BOROSIL

Borosil Limited
Plot No 22, 24 & 25, Ankleshwar-Rajpipla Road,
Village-Dumala Boridra, Taluka-Jhagadia,
Dist. Bharuch - 393001, Gujarat
INDIA

has established and applies
an Environmental Management System for

Design, Development, Manufacturing
& Supplying of various Glasswares Items
including Lab Ware & Consumer Ware.

An audit was performed, Order No. 4153699347.
Proof has been furnished that the requirements
according to

DIN EN ISO 14001:2015

are fulfilled.
The certificate is valid from 2023-01-23 until 2026-01-22.
Certificate Registration No.: 12 104 65294 TMS.

Head of Certification Body
Munich, 2023-01-23



TÜV NORD

CERTIFICATE

Management system as per
ISO 9001 : 2015

BOROSIL TECHNOLOGIES LIMITED
S.No. 234, 235, 245, First Floor, Plot No.9,
Indiabulls Global Industrial Park, Hinjewadi Phase 1,
Tal: Mulshi, Pune - 411 057, Maharashtra,
India

Design, Development, Manufacture & Supply of Scientific Laboratory
Equipments & Instruments



CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

BOROSIL

Borosil Limited
Plot No 22, 24 & 25, Ankleshwar-Rajpipla Road,
Village-Dumala Boridra, Taluka-Jhagadia,
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Head of Certification Body
Munich, 2023-01-23

# ISO/TC 48

International Organization for Standardization

We take the pride to mention that **BOROSIL**

represents India on

**ISO/TC 48 - Technical Committee**
**for Laboratory equipment and apparatus.**

# NABL Accredited Testing Laboratory



**Operated by trained and certified lab technicians**

## **BOROSIL** offers a range of glassware certified as per NABL norms

- Volumetric Flasks
- Measuring Cylinders
- Burettes
- Volumetric & Graduated Pipettes

### NABL Accreditation Certificate



National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

BOROSIL LIMITED CALIBRATION LABORATORY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

22/24, ANKLESHWAR RAJPIPLA ROAD, VILLAGE- DUMALA BORIDRA, POST- KHARCHI, TALUKA- JHAGADIA, BHARUCH, GUJARAT, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2919

Issue Date: 28/02/2023 Valid Until: 27/02/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : BOROSIL LIMITED

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

### NABL Product Certificate



BOROSIL

CALIBRATION LABORATORY

CALIBRATION CERTIFICATE

SAMPLE

- Product details
- Calibration details
- Calibration Equipment traceability
- Statement for recalibration

**NEW VERSION IS LIVE**

Update the BOROSIL app now!

## TWO EASY OPTIONS

TO DOWNLOAD THE CERTIFICATE

SCAN **QR CODE**




ENTER **UID CODE**

**Individual calibration certificate**



BOROSIL

Borosil Limited

Class 'A' TEST CERTIFICATE

Individual Calibration Certificate can also be accessed at www.borosil.com

# Factory and Production

## Automatic Blank Manufacturing Facility





State-of-art auto blowing facility used to produce blanks with uniform wall thickness and ensure exact shape and dimension according to the standards.

All the blanks are manufactured from 3.3 Low Expansion Borosilicate Glass with controlled Internal Diameter tubing.

## Unique Annealing Facility





All **Borosil** glassware products pass through annealing Lehr chamber where the stresses are eliminated under controlled heating and cooling process

This annealing process ensures the long lasting printing quality. In order to get the highest level of precision, carefully controlled gradual heating and cooling procedures are essential

## Petri Dish Manufacturing Facility





## Advanced Printing Technology



High definition printing for accurate and easy reading

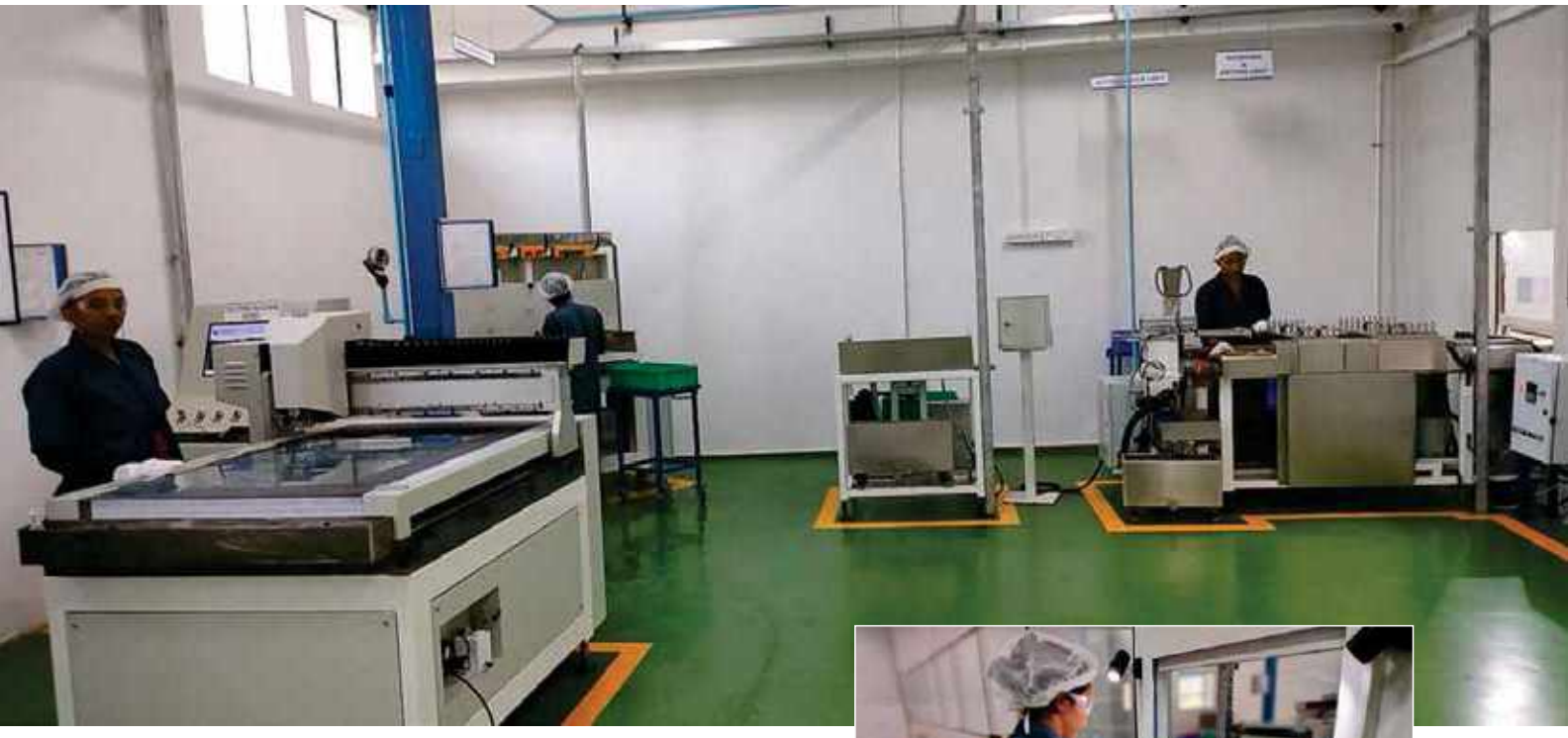
## Wall Thickness Measure




## Automated Vial Forming Machine



# Microscope Slide & Cover Glass Production Line





State-of-the-art facility set up for manufacturing microscope slides at Bharuch factory. The slides are made using best quality raw material and comply with ISO 8037 Standard.



# New Warehouse in Bharuch, Gujarat, India



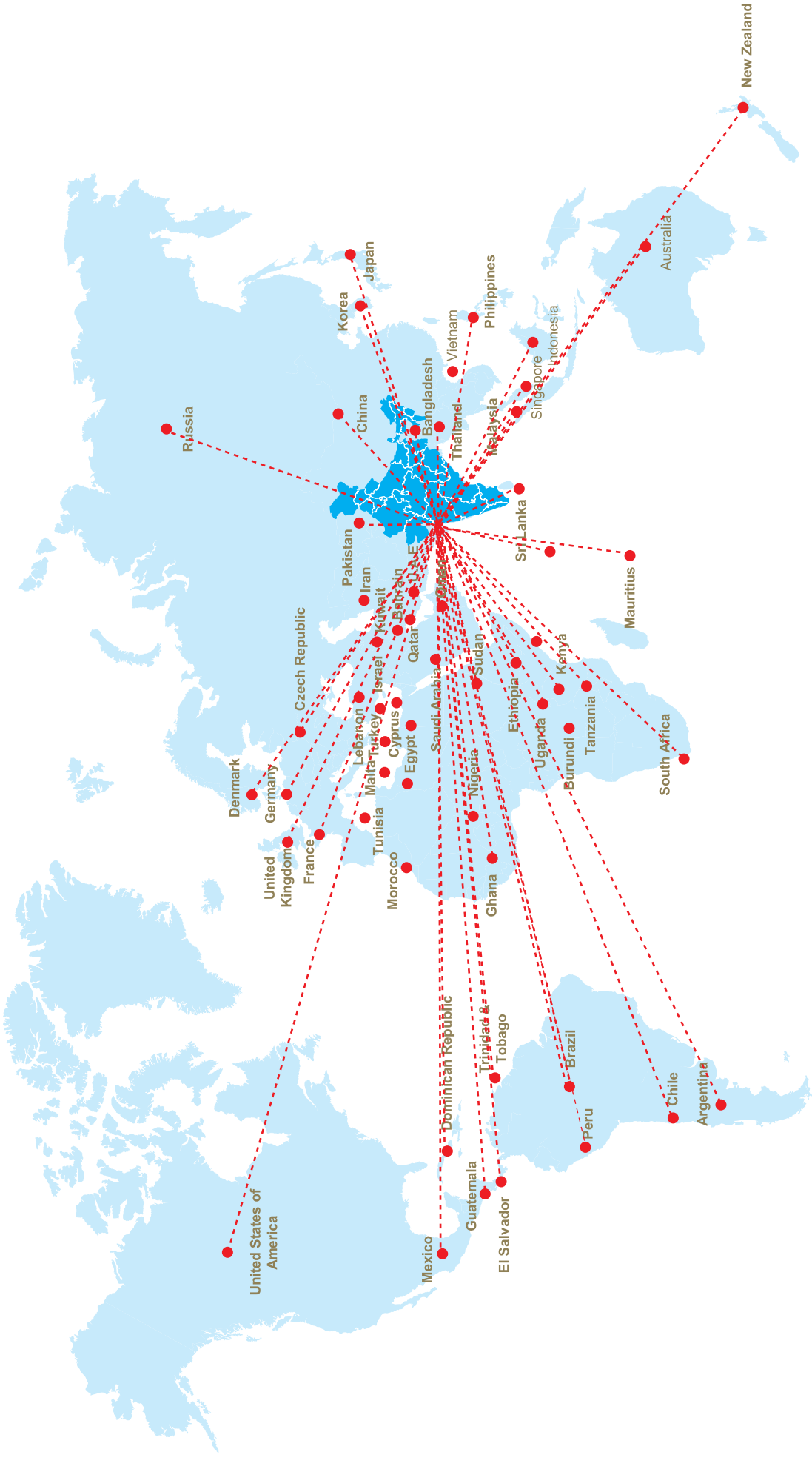
We are pleased to announce the opening of our new warehouse in Bharuch which was inaugurated by our esteemed Chairman Mr. Pradeep Kheruka, MD Mr. Shreevar Kheruka and COO Mr. Vinayak Patankar on 8th September 2022.

The event marked a new chapter in scaling up our operations with a thought provoking address by AVP - Operations Mr. Jeevan Dogra.

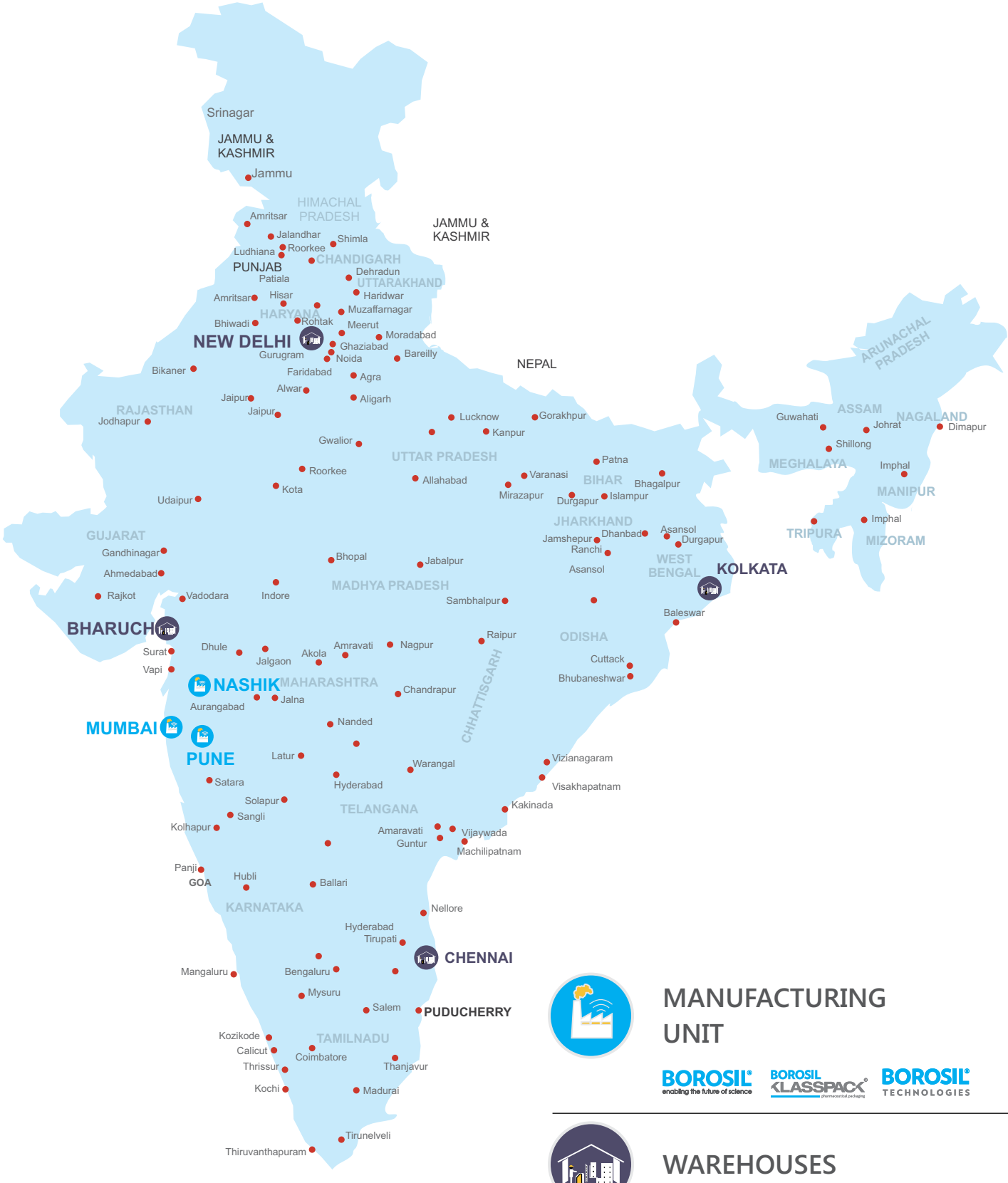
With a new, advanced and bigger facility, this new warehouse is equipped with state of the art safety features. Equipped with the latest facilities, this warehouse is tuned to cater to our expanding global operations.



# “A local Global" with exports to 70 Countries



# "Industry leading distribution network"




## MANUFACTURING UNIT

BOROSIL enabling the future of science · BOROSIL KLASSPACK pharmaceutical packaging · BOROSIL TECHNOLOGIES

## WAREHOUSES

- BHARUCH
- DELHI
- CHENNAI
- KOLKATA

## PAN INDIA NETWORK OF 150 CHANNEL PARTNERS

# Calibration Process




**BOROSIL** is India's single largest manufacturer of a complete range of Volumetric Glassware. Borosil's Volumetric products are used in all laboratories from high-end pharmaceutical production companies to high schools and colleges.

**BOROSIL** adheres to the highest quality standards, right from the raw material used to the measurement and calibration of the finished product. Visual and physical quality checks are undertaken at each stage of production, in order to ensure the highest quality product for customers.

**BOROSIL** ensures that every Volumetric Glassware product is of the highest quality in the following parameters:



## ACCURACY

- Computer Controlled Calibration
- Reliability in experiments through individually certified volumetric glassware
- Facilitates audit procedures in the laboratory
- Enhanced production from new facility



## MECHANICAL STRENGTH

- Optimum wall thickness
- Annealed glassware imparts better mechanical strength
- Ideal for vacuum application, wet and dry sterilization
- Harder, hence lasts longer



## THERMAL SHOCK RESISTANCE

- Safely withstands thermal shock
- Annealed to remove residual thermal Stress
- Thinner, uniform wall, hence lasts longer



## CHEMICAL DURABILITY

- High resistance to attack from acids, salt solutions and organic solvents
- Low alkalinity, hence less leaching
- Low alkalinity makes glass harder, hence the glass lasts longer



ISO/IEC 17025:2005 Accredited. Calibration Labaratory
Computer controlled automatic calibration machine with optical laser beams to prevent human error and ensure highest level of accuracy and precision

**BOROSIL** performs the calibration process with fully automatic state-of-the-art calibration machines that eliminate any possibility of human error. This also ensures a high degree of repeatable measurements for all Borosil Volumetric products.

**BOROSIL** has an in-house set-up of a well-equipped temperature-controlled calibration laboratory with precision electronic balances, thermometers and stopwatches that are traceable to national standards. Calibration of Volumetric Glassware is entrusted to only trained and experienced technicians.

The following steps are carried out by highly precise, fully automated computer-controlled machines:

1. Filling the Volumetric blanks with a precisely-defined amount of de-mineralized water under controlled temperature.
2. The meniscus is determined with a laser-controlled camera at the exact lowest point of the water level, and the calibration mark is made with a fine diamond wheel. This gives accuracies that cannot be achieved by manual calibration.
3. Cylinders, Burettes and Pipettes are marked at a minimum of two calibration points.
4. The wet surface area factor is always taken into account, throughout the process.
5. The calibration laboratory is temperature, light controlled and temperature is maintained at 23°C ± 2°C.

All Volumetric Glassware is calibrated either as

**To contain TC / In**
The contained quantity of liquid corresponds exactly to the capacity indicated on the article (e.g. graduated cylinders and volumetric flasks).

**To deliver TD / Ex**
The delivered quantity of liquid corresponds exactly to the capacity indicated on the article. (e.g. pipette and burettes).

These steps ensure that each and every Volumetric product leaving the **BOROSIL** facility meets the highest international standards and can be used for various purposes with the highest degree of repeatability and accuracy.






Rain water harvesting has been deployed in our 110 acre facility in Gujarat, since 2003.

Wind energy is the source of 48% of all the electricity that we consume.

Our Borosolar water heating systems are used to heat the water supplied in all Borosil Guesthouses and Colonies..

Our other energy efficient measures include advanced waste heat recovery systems and solar lighting.

Our in-house 9 hole par 36 Golf Course is maintained by using the water from our rain water harvesting initiative.

## WE nurture

Borosil supports and runs a school, for children from neighbouring villages and employees' children.

Borosil proposes to open a hospital in the near future.



## WE care

Borosil supports GLOBAL PARLI - A Mission to Transform India Through Rural Economic Transformation




**4.1 Mn +**
**Fruit Trees Planted Till February 2021**



# BOROSIL® SCORES A BRACE!




Borosil won the silver medal in the India Green Manufacturing Challenge 2021-22 in September 2022. Additionally, The Special award was also presented, for the Indigenization of advanced processes and machinery. Both awards were presented by the International Research Institute for Manufacturing, India.






Borosil Limited and Hahnemuhle FineArt Gmbh announce collaboration to introduce finest quality filter papers in India

With a purpose to provide laboratory professionals in India the finest quality filter paper, BOROSIL, has announced its collaboration with the pioneers of filter paper making, Hahnemühle FineArt GmbH. The collaboration will look to leverage BOROSIL's extensive reach & high credibility with Hahneumulhe's "Made in Germany" quality for the benefit of India's scientific community. The tie-up will see the launch of products like Qualitative filter papers, Quantitative filter papers, hardened quantitative filter papers, Glass fibre filters, and more.

Speaking on the collaboration, Mr. Shreevar Kheruka, MD, Borosil said, "We are very excited to announce our collaboration with Hahnemühle Fine Art Germany, pioneers of filter papers since 1883. There are very few companies worldwide that can be proud of such a long history like Hahnemühle. Borosil's vision is to be the most customer centric company in India. In keeping with this vision, this strategic partnership is to provide Indian scientists and upcoming intellects with quality filter papers that will aid in producing accurate and consistent results. "

Commenting on the of the launch, Jan Wölfle, CEO, Hahnemühle FineArt GmbH said, "We are very excited about our new strategic partnership with Borosil for the APJ market, specifically India, initially. With Borosil, we have met a very committed team here that is ahead-of-the-curve in the Life Science market, committed, competent and single-minded . Hence, we together pursue this growth opportunity for both of us, establish high-quality filter papers "Made in Germany" in the Indian market. We have great confidence in the entire operational and leadership team that together we will provide significant value to the Borosil customers in India to further differentiate Borosil in the Indian market."

Mr. Vinayak Patankar, COO, Borosil added "At Borosil, we've always strived to offer our customers high performing and highly reliable products. Hahnemuhle has an incredible history and their products are widely acclaimed to be the very best in the world. We are delighted to be associated with them and are confident that the Indian scientist will appreciate the quality and performance of the products being offered"

The product launched in March 2022 has been praised and appreciated for its quality ever since.

# Borosil Introduces Next Gen Bottle Top Dispensers

NEW PRODUCT

New Generation Dispensers will empower every lab user with safe & precise handling of various Reagents, Solvents and Acids for sample preparations & handling liquid media.



In December 2022, Borosil Technologies Ltd.(a group company of Borosil Limited)announced the launch of the new Bottle Top Dispensers.

These new revolutionary dispensers will ease out laboratory sample preparation offering utmost user safety, time saving, work precision, ease of Installation and operations along with easy recalibration technology.

Following its vision of being the most customer centric company, Borosil understands and makes products to address the growing laboratory needs keeping in view the safety requirements.

Key Features:

- Available in 2 variants and 6 different capacities ranging from (0.25m - 100ml) to suit user dispensing requirements, Accuracy standards as mentioned in ISO8655
- Simple design & usage in laboratory
- Wetted parts are made from Borosilicate Glass, FEP, PTFE Piston & PFA Valve
- Lowest Push & Pull force in wiping out piston dispensers range offered by competitors
- Unique calibration ring
- Multiple adapters are provided along with dispensers for bottles with different neck size & heights.

These dispensers are proudly made in India & ensure exceeding customer expectations.



## BOROSIL®

### PROCESS SCIENCES

BOROSIL has been the preferred specialty glass of choice for the scientific and industrial community for 60 years. By working closely with chemists, we have been providing innovative solutions & products in their pursuit of excellence and discovery.

BOROSIL PROCESS SCIENCE provides offerings for chemical synthesis & process development from bench top reactors to complex pilot plants.

Our scope of services includes custom design of plants and pilot assemblies, data logging and programmable controls, installation and training.



## Portfolio

- Lab Reactors
- Automated Lab Reactors
- Filter Reactor
- Spherical Pilot Reactors
- Glass Mixer Reactors
- Gas Scrubbers

# Foreword

Borosil Limited presents to you, this Borosil Scientific and Laboratory Glassware Pricelist. Unless specific arrangements have been made to the contrary, the prices contained in this Pricelist are applicable to all goods despatched on or after **April 01, 2023.**

This Pricelist supersedes all previous prices. All prices stated herein are the recommended maximum price per piece in INR, and are exclusive of All Taxes, Goods and Services Tax (GST), any delivery charges, other statutory and non-statutory levies. The dealers are at liberty to charge prices lower than those stipulated herein.

# Customised Glassware

We undertake the manufacture of special glassware to agreed specifications. Please send us your queries at the address below, including complete details of specifications, and drawings wherever possible. We would be pleased to assist you in formulating specifications within normal working tolerances. Usually, we only accept orders with a minimum ex-works value of INR 10,000/-.

**Corporate Office :**
**Borosil Limited**
Crescenzo, G-Block, Opp. MCA Club,
Bandra Kurla Complex,
Bandra (E), Mumbai - 400 051, India
Tel : 022 - 6740 6300
Fax : 022 - 6740 6514
Email : lab.customercare@borosil.com

# Conditions of Sale

At Borosil, it is our policy to market our laboratory glassware through our wide network of Authorised Dealers. Strategically located all over India, they are best equipped to satisfy the individual requirements of users across the nation. The products supplied will usually be in accordance with illustrations and descriptions however, **Borosil reserves the right to make alterations and modifications depending upon circumstances and/or changes in official specifications, or as a result of design improvements.**

Although the products are guaranteed for glass quality and workmanship, Borosil shall not be liable for any loss or damage or injury, arising directly or indirectly from the use of these products.

The images given in the Pricelist are for reference purpose only.
Actual products may differ from the images.

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# Beakers

Whether it is research, industry or education, the Beaker has a wide range of applications. This simple container, used for stirring and mixing liquids, is also ideal for heating them. Controlled wall thickness at the sides, radius and the base, ensures a fine balance between the thermal resistance and mechanical strength, to enable effective heating. Many Beakers also have a spout that makes pouring easier and more precise.

**BOROSIL®** Glasswares are best-in-class products with several advantages. They have a high level of thermal shock resistance and a high operating temperature. Besides using USP type I borosilicate glass constant quality control checks are conducted throughout the production process to ensure uniformity of the wall thickness. Such uniform wall thickness distribution prevents uneven expansion and stressing of the glass that often results in a failure.

Beakers are mainly used as heating vessels. The tall-shape design of the Beaker is ideal for heating in a liquid bath, especially when the contents need to be kept distinctly apart from the surrounding medium or materials.

**BOROSIL®** brand Low form Beaker (Cat No. 1000) and **BOROSIL®** brand Tall Form Beaker (Cat No. 1060) are two popular styles used for storage and mixing.

**BOROSIL®** offers full range of beakers to suit every application.




## Made from 3.3 Low Expansion Borosilicate Glass

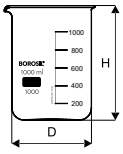
USP TYPE I

TYPE I ASTM E438 CLASS A

ISO 3585

# 1000 - LOW FORM BEAKER

## With Spout







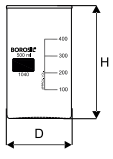
- Complies with IS 2619 /ISO 3819 and DIN 12331
- The spout design enables clean and precise pouring
- Graduated to indicate the approximate content
- Uniform wall thickness distribution improves mechanical & thermal properties & makes it ideal for heating liquids
- The easy-to-read scale and large labelling field makes marking easier
- High resistance to chemical attack

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1000005 | 5* | 22 x 30 | 20 | **145.00** |
| 1000006 | 10* | 26 x 35 | 20 | **145.00** |
| 1000009 | 25 | 34 x 50 | 60 | **145.00** |
| 1000D12 | 50 | 42 x 60 | 60 | **100.00** |
| 1000D16 | 100 | 50 x 70 | 40 | **100.00** |
| 1000D18 | 150 | 60 x 80 | 40 | **100.00** |
| 1000D21 | 250 | 70 x 95 | 40 | **110.00** |
| 1000D23 | 400 | 80 x 110 | 40 | **180.00** |
| 1000D24 | 500 | 83 x 115 | 40 | **175.00** |
| 1000D25 | 600 | 90 x 125 | 40 | **240.00** |
| 1000028 | 800 | 100 x 135 | 20 | **355.00** |
| 1000D29 | 1000 | 105 x 145 | 20 | **355.00** |
| 1000D30 | 2000 | 130 x 185 | 6 | **720.00** |
| 1000D31 | 3000 | 150 x 210 | 4 | **1935.00** |
| 1000D33 | 5000 | 170 x 270 | 4 | **2840.00** |
| 1000D38 | 10000 | 220 x 350 | 1 | **9125.00** |

* 5 ml and 10 ml Beakers are not graduated.

# 1040 - TALL FORM BEAKER

## Without Spout

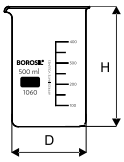





- Complies with IS 2619 / ISO 3819 and DIN 12331
- Graduated to indicate the approximate content
- Uniform wall thickness distribution improves mechanical & thermal properties & makes it ideal for heating liquids
- The easy-to-read scale and large labelling field makes marking easier
- High resistance to chemical attack
- Ideal for titrations

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1040012 | 50 | 38 x 70 | 40 | **150.00** |
| 1040016 | 100 | 50 x 80 | 40 | **155.00** |
| 1040018 | 150 | 54 x 95 | 40 | **160.00** |
| 1040021 | 250 | 60 x 120 | 40 | **170.00** |
| 1040024 | 500 | 80 x 140 | 20 | **240.00** |
| 1040025 | 600 | 80 x 150 | 20 | **315.00** |
| 1040028 | 800 | 90 x 175 | 20 | **385.00** |
| 1040029 | 1000 | 95 x 180 | 20 | **470.00** |



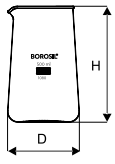

## 1060 - TALL FORM BEAKER

### With Spout

- Complies with IS 2619 / EN ISO 3819 and DIN 12331
- Graduated to indicate the approximate content
- The spout design enables clean and precise pouring
- Uniform wall thickness distribution improves mechanical & thermal properties & makes it ideal for heating liquids
- The easy-to-read scale and large labelling field makes marking easier
- High resistance to chemical attack
- Ideal for titrations

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1060012 | 50 | 38 x 70 | 40 | **180.00** |
| 1060D16 | 100 | 50 x 80 | 40 | **185.00** |
| 1060018 | 150 | 54 x 95 | 40 | **190.00** |
| 1060D21 | 250 | 60 x 120 | 40 | **185.00** |
| 1060D24 | 500 | 80 x 140 | 20 | **250.00** |
| 1060025 | 600 | 80 x 150 | 20 | **395.00** |
| 1060028 | 800 | 90 x 175 | 20 | **465.00** |
| 1060D29 | 1000 | 95 x 180 | 20 | **500.00** |




## 1080 - PHILLIP (CONICAL) BEAKER

### With Spout

- Conical shape (Phillips pattern) with spout
- Its mouth is smaller in diameter than its base
- The Phillips Beaker is ideal for measuring, containment, mixing and decanting

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1080021 | 250 | 68 x 110 | 40 | **810.00** |
| 1080024 | 500 | 88 x 145 | 40 | **1015.00** |

BOROSIL®

## Tongs For Beakers & Flasks

- Made of stainless steel
- Used to handle hot beakers
- Provided with silicon sleeves or in fibre glass yarn to resist direct flame



For more details please refer page no. 227

LABQUEST BY BOROSIL®

# Stirring Revolution in India



A hot plate magnetic Stirrer is an essential part of almost every laboratory.

Labs in India had to either rely on expensive imported hot plate stirrers or compromise by opting for crude fabricated stirrers with almost no safety features.

Introducing the HLS200 from Borosil that is stirring revolution in India. With segment first features that allows experiments to be controlled precisely by regulating the actual media temperature.

Call or Write to us to be part of the revolution!

Email id: lab.support@borosil.com
Toll Free Number: 1800 224 551



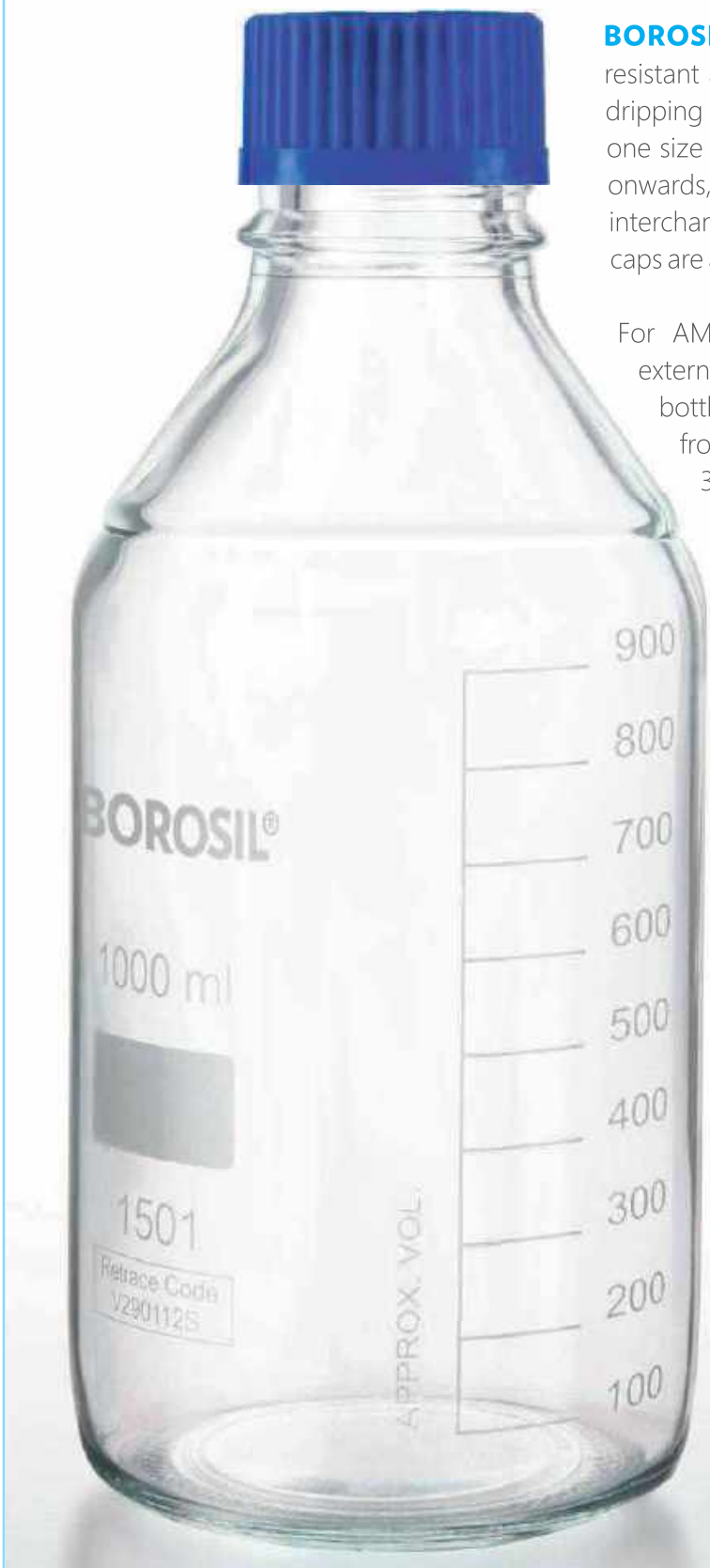
Click on this page to know more

Manufactured in BOROSIL® TECHNOLOGIES

SMART | RUGGED | PRACTICAL

For more details please refer page no. 258

# Laboratory Bottles




**BOROSIL®** Laboratory bottles are chemically resistant and stable. When fitted with pouring ring, dripping can be totally eliminated. As there is only one size of screw thread for all bottles from 100 ml onwards, the screw caps and pouring rings are fully interchangeable. The bottles, pouring rings and caps are autoclavable and sterilizable.

For AMBER Bottles, ambering is done on the external surface only, hence properties within the bottle remain unchanged. It protects the media from light radiations of wavelengths between 300nm and 500 nm.

## Made from 3.3 Low Expansion Borosilicate Glass

USP TYPE I

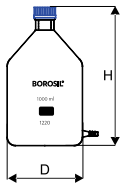
TYPE I ASTM E438 CLASS A

ISO 3585



# 1220 - ASPIRATOR BOTTLES

## With Tubulation and PP Cap





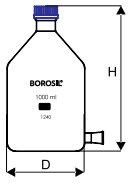

- Complies with IS 1388 (Part III), ISO 4796-3
- Supplied with GL45 screw caps and pouring ring made of polypropylene, autoclavable at 121°C
- All sizes have a durable matt-finished enamelled area for marking
- Suitable for storage of aggressive media

| Product Code | Capacity ml | Approx O.D. x Height* mm | Thread Specification | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1220021 | 250** | 70 x 140 | GL 45 | 10 | **495.00** |
| 1220024 | 500** | 86 x 176 | GL 45 | 10 | **570.00** |
| 1220029 | 1000 | 101 x 225 | GL 45 | 10 | **1005.00** |
| 1220030 | 2000 | 136 x 260 | GL 45 | 5 | **1595.00** |
| 1220033 | 5000 | 181 x 320 | GL 45 | 1 | **9170.00** |
| 1220038 | 10000*** | 235 x 405 | GL 45 | 1 | **15520.00** |
| 1220040 | 20000*** | 296 x 505 | GL 45 | 1 | **28205.00** |

**Not covered in ISO / DIN standards.
*Height indicated is of Bottle only
***As per Borosil dimension

# 1240 - ASPIRATOR BOTTLES

## With Socket Outlet For Stopcock and PP Cap






- Complies with IS 1388 (Part III), ISO 4796-3
- Supplied with GL45 screw caps and pouring ring made of polypropylene, autoclavable at 121°C
- All sizes have a durable matt-finished enamelled area for marking
- Suitable for storage of aggressive media

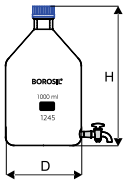
| Product Code | Capacity ml | Approx O.D. x Height* mm | Thread Specification | Outlet Ground Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 1240029 | 1000 | 101 x 225 | GL 45 | 19 / 26 | 10 | **1245.00** |
| 1240030 | 2000 | 136 x 260 | GL 45 | 19 / 26 | 5 | **1785.00** |
| 1240033 | 5000 | 181 x 330 | GL 45 | 29 / 32 | 1 | **10320.00** |
| 1240038 | 10000*** | 235 x 410 | GL 45 | 29 / 32 | 1 | **14625.00** |
| 1240040 | 20000*** | 296 x 505 | GL 45 | 29 / 32 | 1 | **25140.00** |

*Height indicated is of Bottle only

***As per Borosil dimension

**Glass stopcock available on request**






## 1245 - ASPIRATOR BOTTLES

### With I/C Glass Stopcock and PP Cap

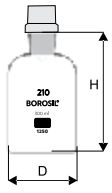
- Complies with IS 1388 (Part III), ISO 4796-3
- Supplied with GL45 screw caps and pouring ring made of polypropylene, autoclavable at 121°C
- All sizes have a durable matt-finished enamelled area for marking
- Suitable for storage of aggressive media

| Product Code | Capacity ml | Approx O.D. x Height* mm | Thread Specifica-tion | Outlet Ground Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 1245029 | 1000 | 101 x 225 | GL 45 | 19 / 26 | 10 | **3460.00** |
| 1245030 | 2000 | 136 x 260 | GL 45 | 19 / 26 | 4 | **4085.00** |
| 1245033 | 5000 | 181 x 330 | GL 45 | 29 / 32 | 1 | **13545.00** |
| 1245038 | 10000*** | 235 x 410 | GL 45 | 29 / 32 | 1 | **19090.00** |
| 1245040 | 20000*** | 296 x 505 | GL 45 | 29 / 32 | 1 | **28360.00** |

*Height indicated is of Bottle only
***As per Borosil dimension

**Spare glass stopcock available on request**



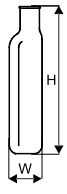

## 1250 - B.O.D. BOTTLES

- Complies with IS 9213
- Supplied with Interchangeable glass stopper and plastic cap
- Individual number printed on the bottle
- Used for determination of Biological Oxygen Demand in industrial effluents, waste and water

| Product Code | Capacity ml | Approx O. D. x Height* mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1250013 | 60** | 42 x 100 | 10 | **545.00** |
| 1250017 | 125** | 55 x 120 | 10 | **675.00** |
| 1250022 | 300 | 70 x 143 | 30 | **785.00** |

*Height indicated is of Bottle only
**60 & 125 ml are not covered in standards
300 ml is for determination of B.O.D. in Industrial effluents, wastes and water as per method specified by the American Public Health Association





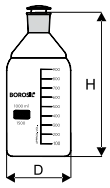

## 1290 - ROUX BOTTLES WITH OFF SET NECK

- Complies with IS 6942
- The offset neck is tool-finished for greater strength and uniform stopper fit
- Withstands repeated sterilisation cycles (wet or dry)
- These bottles facilitate the growing of mass cultures and monolayer cultures

| Product Code | Capacity ml | Approx B x W x H mm | Approx Neck I. D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1290029 | 1000 | 126 x 56 x 265 | 25 | 20 | **2185.00** |

# 1500 - REAGENT BOTTLES

## Narrow Mouth With I/C Glass Stopper







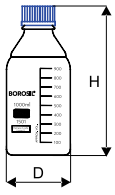
- Complies with IS 1388 (Part II), ISO 4796 - 2
- Supplied with solid glass stopper
- Printed with graduations using a durable white enamel
- Bottles are mechanically strong and chemical resistant with a sturdy ground neck

| Product Code | Capacity ml | Approx O.D. x Height* mm | Neck Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1500013 | 60** | 45 x 90 | 14 / 23 | 40 | **450.00** |
| 1500016 | 100 | 56 x 100 | 19 / 26 | 10 | **495.00** |
| 1500017 | 125** | 56 x 120 | 19 / 26 | 50 | **445.00** |
| 1500021 | 250 | 70 x 138 | 19 / 26 | 10 | **490.00** |
| 1500024 | 500 | 86 x 177 | 24 / 29 | 10 | **495.00** |
| 1500029 | 1000 | 101 x 225 | 29 / 32 | 5 | **865.00** |
| 1500030 | 2000 | 136 x 260 | 34 / 35 | 5 | **1460.00** |

*Height indicated is of Bottle only
**60 & 125 ml is not covered in standards

# 1501 - REAGENT BOTTLES

## Narrow Mouth With Screw Cap







- Complies with IS 1388 (Part I), ISO 4796 - 1
- Supplied with screw caps and pouring ring made of polypropylene, autoclavable at 121°C
- Printed with graduations and retrace code using a durable white enamel
- 100 ml to 20000 ml Bottles have uniform GL 45 thread
- Mechanically strong and chemical resistant
- Ideal for storage of chemicals, reagents, media

| Product Code | Capacity ml | Approx O.D. x Height* mm | Thread Specification | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1501006 | 10**# | 36 x 50 | GL 25 | 10 | **555.00** |
| 1501009 | 25# | 36 x 70 | GL 25 | 20 | **370.00** |
| 1501012 | 50 | 46 x 87 | GL 32 | 20 | **450.00** |
| 1501016 | 100 | 56 x 100 | GL 45 | 10 | **405.00** |
| 1501018 | 150**# | 60 x 120 | GL 45 | 10 | **475.00** |
| 1501021 | 250 | 70 x 138 | GL 45 | 10 | **410.00** |
| 1501024 | 500 | 86 x 177 | GL 45 | 10 | **450.00** |
| 1501029 | 1000 | 101 x 225 | GL 45 | 10 | **695.00** |
| 1501030 | 2000 | 136 x 260 | GL 45 | 10 | **1240.00** |
| 1501031 | 3000** | 158 x 295 | GL 45 | 2 | **6410.00** |
| 1501033 | 5000*** | 181 x 320 | GL 45 | 1 | **7235.00** |
| 1501038 | 10000*** | 235 x 405 | GL 45 | 1 | **11935.00** |
| 1501040 | 20000*** | 296 x 505 | GL 45 | 1 | **22320.00** |

- *Height indicated is of Bottle only
- #Without Pouring Ring
- **Not covered in any standard
- ***As per Borosil Dimension



## 1503 - SCREW CAPS FOR BOTTLES

- Made of polypropylene (PP)
- Supplied with PP pouring rings
- Autoclavable at 121°C
- Available in 5 different colours

| Product Code | Colour Description | Thread Specification | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1503C01 | Blue | GL 45 | 10 | **105.00** |
| 1503C02 | Orange | GL 45 | 10 | **110.00** |
| 1503C03 | Yellow | GL 45 | 10 | **110.00** |
| 1503C04 | Green | GL 45 | 10 | **110.00** |
| 1503C05 | Grey | GL 45 | 10 | **110.00** |
| 1503C06 | Blue | GL 25 | 10 | **100.00** |
| 1503C07 | Blue | GL 32 | 10 | **100.00** |
| 1503C08 | Blue | GL 36 | 10 | **100.00** |

HSN Code: 39235010



## 1505 - HIGH TEMPERATURE RESISTANT SCREW CAPS

- Made of Polybutylene Teraphthalate (PBT)
- Supplied with a silicone/PTFE liner and pouring ring
- Temperature resistance: - 40°C to +180°C
- Withstand sterilization conditions: hot air sterilization in oven upto 180°C and steam sterilization in autoclave at 121°C

| Product Code | Colour Specification | Thread Specification | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1505C01 | Red | GL - 45 | 10 | **795.00** |

HSN Code: 39235010



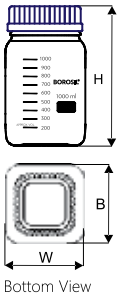

Product code 1507



**AMBER** Colour Bottles are available on request.

## 1506 - REAGENT BOTTLES

### Wide Mouth With Screw Cap, Square




Bottom View

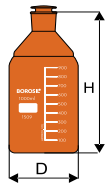
- Supplied with GL80 screw caps and pouring ring made of polypropylene, autoclavable at 121°C
- Square shape enables stacking of bottles during usage, storage and transport
- Extra wide GL 80 neck gives ease of pouring & filling of liquids as well as powders
- Large stable base helps prevent tumbling of the bottle
- Ideal for storage and transfer of pharma and biopharma products

| Product Code | Capacity ml | Approx B x W x H mm | Thread Specification Approx O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1506024 | 500 | 94 x 94 x 141 | GL-80 | 10 | **1170.00** |
| 1506029 | 1000 | 105 x 105 x 187 | GL-80 | 10 | **1295.00** |
| 1506030 | 2000 | 115 x 115 x 260 | GL-80 | 10 | **2035.00** |
| 1506033 | 5000 | 160 x 160 x 357 | GL-80 | 1 | **12545.00** |

*Height indicated is of Bottle only

# 1509 - REAGENT BOTTLES

## Narrow Mouth With I/C Glass Stopper, Amber







- Complies with IS 1388 (Part II), ISO 4796 - 2
- Supplied with solid glass stopper
- Printed with graduations using a durable white enamel
- Bottles are mechanically strong and chemical resistant with a sturdy ground neck
- Uniform amber colour protects media from light radiation with a wave-length between 300 nm and 500 nm
- Ideal for use with light-sensitive media and for the long-term storage of substances

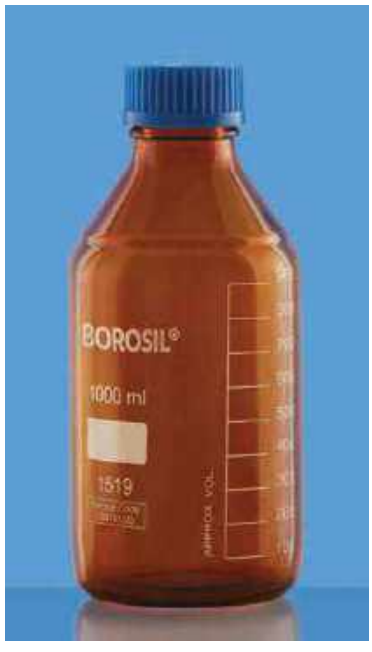
| Product Code | Capacity ml | Approx O.D. x Height* mm | Neck Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1509013 | 60** | 45 x 100 | 14 / 23 | 20 | **645.00** |
| 1509016 | 100 | 56 x 100 | 14 / 23 | 10 | **715.00** |
| 1509017 | 125** | 56 x 120 | 19 / 26 | 20 | **675.00** |
| 1509021 | 250 | 70 x 138 | 19 / 26 | 10 | **845.00** |
| 1509024 | 500 | 86 x 177 | 24 / 29 | 10 | **985.00** |
| 1509029 | 1000 | 101 x 225 | 29 / 32 | 5 | **1275.00** |
| 1509030 | 2000 | 136 x 260 | 34 / 35 | 5 | **2350.00** |

*Height indicated is of Bottle only
**60 & 125 ml is not covered in standards

# 1519 - REAGENT BOTTLES

## Narrow Mouth With Screw Cap, Amber



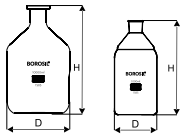




- Complies with IS 1388 (Part I), ISO 4796 - 1
- Supplied with screw caps and pouring ring made of polypropylene, autoclavable at 121°C
- Printed with graduations and retrace code using a durable white enamel
- 100 ml to 20000 ml Bottles have uniform GL 45 thread
- Mechanically strong and chemical resistant
- Uniform amber colour protects media from light radiation with a wave-length between 300 nm and 500 nm
- Ideal for use with light-sensitive media and for the long-term storage of substances

| Product Code | Capacity ml | Approx O.D. x Height* mm | Thread Specification | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1519006 | 10**# | 36 x 50 | GL 25 | 10 | **685.00** |
| 1519009 | 25# | 36 x 70 | GL 25 | 20 | **580.00** |
| 1519012 | 50# | 46 x 87 | GL 32 | 20 | **670.00** |
| 1519016 | 100 | 56 x 100 | GL 45 | 10 | **695.00** |
| 1519021 | 250 | 70 x 138 | GL 45 | 10 | **730.00** |
| 1519024 | 500 | 86 x 177 | GL 45 | 10 | **875.00** |
| 1519029 | 1000 | 101 x 225 | GL 45 | 10 | **1140.00** |
| 1519030 | 2000 | 136 x 260 | GL 45 | 10 | **2140.00** |
| 1519031 | 3000** | 158 x 295 | GL 45 | 2 | **11425.00** |
| 1519033 | 5000*** | 183 x 320 | GL 45 | 1 | **11795.00** |
| 1519038 | 10000*** | 235 x 405 | GL 45 | 1 | **17170.00** |
| 1519040 | 20000*** | 296 x 500 | GL 45 | 1 | **31045.00** |

- *Height indicated is of Bottle only
#Without Pouring rings
**Not covered in any standard
***As per BOROSIL dimensions




# 1585 - SOLUTION BOTTLES

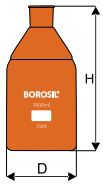
## With Tooled Neck

- Complies with IS 1388 (Part II), ISO 4796 - 2
- 10, 20 & 50 litre bottles specially designed for handling and storing culture media
- All sizes have a durable matt-finished enamelled area for marking

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck I. D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1585021 | 250 | 70 x 145 | 18 | 20 | **465.00** |
| 1585024 | 500 | 86 x 180 | 23 | 20 | **500.00** |
| 1585029 | 1000 | 101 x 230 | 28 | 10 | **790.00** |
| 1585030 | 2000 | 136 x 255 | 33 | 10 | **1335.00** |
| 1585031 | 3000 | 158 x 255 | 44 | 4 | **6645.00** |
| 1585033 | 5000 | 183 x 330 | 44 | 1 | **8180.00** |
| 1585038 | 10000* | 235 x 430 | 54 | 1 | **13980.00** |
| 1585040 | 20000* | 296 x 530 | 54 | 1 | **23205.00** |
| 1585046 | 50000 | 417 x 665 | 89 | 1 | **110340.00** |

*As per Borosil dimensions




# 1589 - SOLUTION BOTTLES

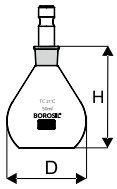
## With Tooled Neck, Amber

- Complies with IS 1388 (Part II), ISO 4796 - 2
- 10, 20 & 50 litre bottles specially designed for handling and storing culture media
- All sizes have a durable matt-finished enamelled area for marking
- Uniform amber colour protects media from light radiation with a wave-length between 300 nm and 500 nm
- Ideal for use with light-sensitive media and for the long-term storage of substances

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck I. D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1589021 | 250 | 70 x 145 | 18 | 10 | **850.00** |
| 1589024 | 500 | 86 x 180 | 23 | 20 | **885.00** |
| 1589029 | 1000 | 101 x 230 | 28 | 5 | **1295.00** |
| 1589030 | 2000 | 136 x 255 | 33 | 5 | **2230.00** |
| 1589031 | 3000 | 158 x 255 | 44 | 4 | **5715.00** |
| 1589033 | 5000 | 183 x 330 | 44 | 1 | **10685.00** |
| 1589038 | 10000* | 235 x 430 | 54 | 1 | **18875.00** |
| 1589040 | 20000* | 296 x 530 | 54 | 1 | **30320.00** |

*As per Borosil dimensions

## 1624 - RELATIVE DENSITY BOTTLES
### (Pyknometer) With I/C PTFE Stoppper With Certificate

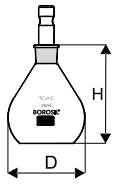





- Supplied with I/C PTFE (Teflon) stopper
- These bottles are mechanically strong and chemical resistant
- All sizes have a durable matt-finished enamelled area for marking
- Provided with certificate

| Product Code | Capacity ml | Capacity Tolerance ± ml | Max. Body Dia x Height mm | Size of Inter-Changeable Stopper | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 1624006 | 10 | 0.3 | 29 x 48 | 10 / 15 | 5 | **1265.00** |
| 1624009 | 25 | 0.8 | 40 x 55 | 10 / 15 | 5 | **1490.00** |
| 1624012 | 50 | 1 | 50 x 65 | 10 / 15 | 5 | **1570.00** |

## 1625 - RELATIVE DENSITY BOTTLES
### (Pyknometer) With I/C PTFE Stoppper

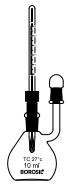





- Supplied with I/C PTFE (Teflon) stopper
- Complies with IS 5717, DIN / ISO 3507
- These bottles are mechanically strong and chemical resistant
- All sizes have a durable matt-finished enamelled area for marking

| Product Code | Capacity ml | Capacity Tolerance ± ml | Max. Body Dia x Height mm | Size of Inter-Changeable Stopper | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 1625006 | 10 | 1 | 29 x 48 | 10 / 15 | 10 | **600.00** |
| 1625009 | 25 | 2 | 40 x 55 | 10 / 15 | 10 | **665.00** |
| 1625012 | 50 | 3 | 50 x 65 | 10 / 15 | 5 | **710.00** |

## 1627 - SPECIFIC GRAVITY BOTTLES (PYKNOMETER)
### With Thermometer And Capillary Side Tube

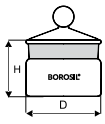




- Complies with IS 5717, DIN / ISO 3507
- These bottles are mechanically strong and chemical resistant
- All sizes have a durable matt-finished enamelled area for marking
- Supplied with thermometer alongwith certificate for thermometer

| Product Code | Capacity ml | Tolerance ± ml | Max. Body Dia x Height mm | Size of I/C Stopper | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 1627006 | 10 | 1 | 29 x 48 | 10 / 19 | 5 | **1705.00** |
| 1627009 | 25 | 2 | 40 x 55 | 10 / 19 | 5 | **2000.00** |
| 1627012 | 50 | 3 | 50 x 65 | 10 / 19 | 5 | **2170.00** |





Squat Form

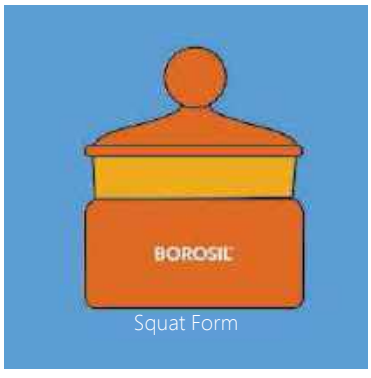

Tall Form

## 1630 - WEIGHING BOTTLES
### With I/C Glass Lid

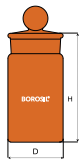
- Complies with IS 1574
- These bottles are mechanically strong and chemical resistant

| Product Code | Capacity ml | Approx O.D. x Height* mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1630005 | 5 | 20 x 45 | 30 | **315.00** |
| 1630007 | 15 | 26 x 65 | 10 | **335.00** |
| 1630008 | 20** | 50 x 35 | 10 | **580.00** |
| 1630009 | 25 | 30 x 65 | 10 | **395.00** |
| 1630011 | 40** | 60 x 40 | 10 | **790.00** |
| 1630013 | 60 | 40 x 90 | 5 | **570.00** |

*Height indicated is of Bottle only
**Squat Form



Squat Form


Tall Form

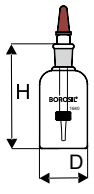
## 1631 - WEIGHING BOTTLES
### With I/C Glass Lid, Amber

- Complies with IS 1574
- These bottles are mechanically strong and chemical resistant
- Suitable for light sensitive substance.

| Product Code | Capacity ml | Approx O.D. x Height* mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1631005 | 5 | 20 x 45 | 30 | **510.00** |
| 1631007 | 15 | 26 x 65 | 10 | **535.00** |
| 1631008 | 20** | 50 x 35 | 10 | **1050.00** |
| 1631009 | 25 | 30 x 65 | 10 | **620.00** |
| 1631011 | 40** | 60 x 40 | 10 | **1465.00** |
| 1631013 | 60 | 40 x 90 | 5 | **935.00** |

*Height indicated is of Bottle only
**Squat Form





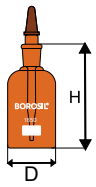

## 1640 - DROPPING BOTTLES With Glass
### Dropper & Rubber Teat

- Supplied with interchangeable ground joint glass dropper and rubber teat
- Highly chemical resistance

| Product Code | Capacity ml | Approx O.D. x Height mm | Socket Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1640010 | 30 | 34 x 86 | 14 / 23 | 10 | **375.00** |
| 1640013 | 60 | 42 x 100 | 14 / 23 | 10 | **510.00** |
| 1640017 | 125 | 55 x 120 | 19 / 26 | 10 | **535.00** |
| 1640021 | 250 | 65 x 147 | 19 / 26 | 10 | **710.00** |

## 1650 - DROPPING BOTTLES

### With Glass Dropper & Rubber Teat, Amber



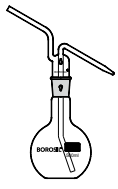

- Supplied with interchangeable ground joint glass dropper and rubber teat
- Highly chemical resistance
- Suitable for light sensitive substance.

| Product Code | Capacity ml | Approx O.D. x Height mm | Socket Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1650010 | 30 | 35 x 84 | 14 / 23 | 10 | **615.00** |
| 1650013 | 60 | 42 x 100 | 14 / 23 | 10 | **855.00** |
| 1650017 | 125 | 55 x 120 | 19 / 26 | 10 | **885.00** |
| 1650021 | 250 | 65 x 147 | 19 / 26 | 10 | **1160.00** |



## 1660 - GLASS WASH BOTTLE

### Set With I/C Stopper

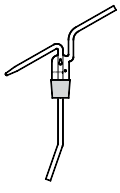


- These bottles are mechanically strong and chemical resistant
- All sizes have a durable matt-finished enamelled area for marking

| Product Code | Capacity ml | Approx OD mm | Approx Height mm | Size of Inter-changeable Stopper | Quantity Per Case Set | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 1660021 | 250 | 85 | 130 | 24 / 29 | 5 | **930.00** |
| 1660024 | 500 | 105 | 160 | 24 / 29 | 5 | **1165.00** |
| 1660029 | 1000 | 131 | 195 | 29 / 32 | 5 | **1435.00** |



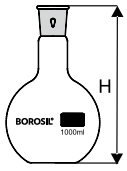
## 1661 - STOPPER FOR GLASS WASH BOTTLE



| Product Code | Capacity ml | Size of Inter-changeable Stopper | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1661021 | 250 | 24 / 29 | 5 | **610.00** |
| 1661024 | 500 | 24 / 29 | 5 | **655.00** |
| 1661029 | 1000 | 29 / 32 | 5 | **685.00** |



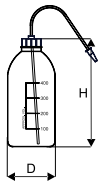



## 1662 - FLASK FOR GLASS WASH BOTTLE

| Product Code | Capacity ml | Approx OD mm | Approx Height mm | Size of Inter-changeable Stopper | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 1662021 | 250 | 85 | 130 | 24 / 29 | 5 | **560.00** |
| 1662024 | 500 | 105 | 160 | 24 / 29 | 5 | **880.00** |
| 1662029 | 1000 | 131 | 195 | 29 / 32 | 5 | **1180.00** |






## 166P - LDPE PLASTIC WASH BOTTLES

### Squeeze Type

- Fitted with delivery tubes
- Bottles and delivery tube made of chemically resistant, low density polyethylene
- Flexible, tough, light weight, and practically unbreakable in use
- Squeezing the bottle produces a steady controllable stream or a few drops.
- Delivery tubes are mounted in polypropylene screw caps
- Tips on delivery tubes are removable

| Product Code | Capacity ml | Approx Diameter mm | Bottle Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 166024 | 500 | 75 | 167 | 36 | **145.00** |



## 1665 - PLASTIC CLAMPS FOR JOINT FITTNGS

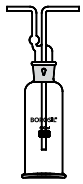
- Made of polypropylene for joint fittings

| Product Code | Joint mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 1665B14 | B 14 | 10 | **70.00** |
| 1665B19 | B 19 | 10 | **70.00** |
| 1665B24 | B 24 | 10 | **75.00** |
| 1665B29 | B 29 | 10 | **75.00** |

HSN Code: 39235010

## 1760 - GAS WASHING (DRESCHEL) BOTTLES

### Set With I/C Stopper



- Complies with IS 11990
- These bottles are mechanically strong and chemical resistant
- All sizes have a durable matt-finished enamelled area for marking



| Product Code | Capacity ml | Approx O.D x Height (bottle) mm | Size of Inter-changeable Stopper | Quantity Per Case Set | Price / Piece ₹ |
|---|---|---|---|---|---|
| 1760017 | 125 | 50 x 165 | 29 / 32 | 5 | **1465.00** |
| 1760021 | 250 | 60 x 190 | 29 / 32 | 5 | **1575.00** |
| 1760024 | 500 | 70 x 245 | 29 / 32 | 5 | **1805.00** |

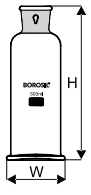
## 1761 - STOPPER FOR GAS WASHING (DRESCHEL) BOTTLES





| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 1761017 | 125 | 5 | **795.00** |
| 1761021 | 250 | 5 | **825.00** |
| 1761024 | 500 | 5 | **945.00** |

## 1762 - BOTTLES FOR GAS WASHING (DRESCHEL) BOTTLES






| Product Code | Capacity ml | Approx O.D x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1762017 | 125 | 50 x 165 | 5 | **1270.00** |
| 1762021 | 250 | 60 x 190 | 5 | **1395.00** |
| 1762024 | 500 | 70 x 245 | 5 | **1705.00** |





## 1764 - GAS SAMPLING TUBES

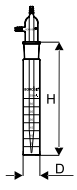
### With Glass Stopcocks

- Complies with DIN 12473

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 1764017 | 125* | 10 | **785.00** |
| 1764021 | 250* | 10 | **920.00** |
| 1764024 | 500 | 10 | **1360.00** |
| 1764029 | 1000 | 10 | **2230.00** |

* Not covered in standards






## 1765 - IMPINGER

- Complies with IS 5182 (Part-VI)
- These bottles are mechanically strong and chemical resistant

| Product Code | Capacity ml | Approx O. D. x Height mm | Quantity Per Case Set | Price / Piece ₹ |
|---|---|---|---|---|
| 1765058 | 35 | 26 x 220 | 10 | **590.00** |



Still stuck with
the old method
**for transferring HPLC solvents ?**

# BOROSIL®

PROUDLY MADE IN india

*is right here* **with a solution**

## Multi-Port HPLC Cap

with Anti-twist mechanism

*A smart solution for transfer of HPLC mobile phase solvents*

**Unique air valve cum filter**

0.1µm filter prevents contamination of solvents with dust particles and the release of solvent vapours thereby maintaining the solvent concentration

**PP fittings for different tubing ODs**

Supplied with three connectors – for 3.2 mm and 1.6 mm OD tubing alongwith one end plug




**Anti-twist mechanism**

Freely rotatable PTFE manifold prevents twisting of the tubes while opening and closing the cap

**Polypropylene Cap**

Suitable for all types of GL 45 bottles and autoclavable at 121°C

| Product Code | No of Ports | Neck | Quantity per Pack | Price per Cap (₹) |
|---|---|---|---|---|
| 1513C04 | 4 | GL45 | 4 Nos | **3755.00** |
| 1513C02 | 2 | GL45 | 4 Nos | **3635.00** |
| 1513C01 | 1 | GL45 | 4 Nos | **3465.00** |

# Burettes




Accuracy, reliability and durability are the three essentials of burettes offered by **BOROSIL®**

Burettes are made from heavy walled, machine drawn borosilicate glass tubing, of precise bore sizes, to provide highest level of accuracy even after repeated usage.

- Complies with highest quality standards according to IS 1997 and ISO 385
- Individually calibrated on automatic calibration machines
- Available in both Class A and Class B tolerances
- Individual calibration certificate provided for Class A Burettes
- Graduation markings made using finest quality white enamel or amber ink to ensure maximum durability
- Stringent control throughout the process of manufacturing and quality checks minimizes the possibility of deviations

## Made from 3.3 Low Expansion Borosilicate Glass



**BOROSIL** Burettes are fitted with Boroflo GP (General Purpose) stopcocks with PTFE keys that offers the following operational advantages :

- No lubrication required as PTFE key is used, hence no chances of contamination with grease
- Excellent flow control
- All glass/PTFE pathway which is highly resistant to chemical attack
- The unique Fluon/glass seal ensures no leakage
- No springs or retaining devices required
- Easy to dismantle and clean
- Absence of ground surfaces resulting in low absorption of radioactivity
- Consistent performance between $0^{0}$C to $50^{0}$ C

In addition to Boroflo GP stopcock, **BOROSIL** also offers burettes with straight bore glass stopcocks and straight bore PTFE stopcocks



Burette with Boroflo GP stopcock



Burette with PTFE stopcock



Burette with Glass stopcock

- Boroflo stopcocks have PTFE keys which do not require greasing
- The PTFE keys provide best drop control during titration process
- Due to identical shape of PTFE key the Burette valve can be closed with gentle turn.
- PTFE stopcocks have identical keys, hence there is no need to match pairs after cleaning
- PTFE is self lubricating hence the keys do not require greasing
- Specially designed solid glass stopcocks are manufactured from 3.3 Low expansion borosilicate glass
- Glass stopcocks are perfectly ground , for leak free operations



## 2121 - BURETTES

### With Boroflo stopcock, Class A, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with Boroflo stopcock
- No lubrication required
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2121006 | 10 | 0.05 | 0.03 | 5 | **2250.00** |
| 2121U06* | 10 | 0.05 | 0.02 | 5 | **2275.00** |
| 2121009 | 25 | 0.10 | 0.05 | 5 | **2320.00** |
| 2121U09* | 25 | 0.10 | 0.03 | 5 | **2420.00** |
| 2121012 | 50 | 0.10 | 0.05 | 5 | **2640.00** |
| 2121016 | 100 | 0.20 | 0.10 | 5 | **3705.00** |

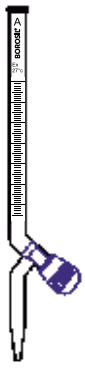
* Accuracy as per ASTM E287-2 and calibrated at 20°C
50 ml and 100 ml capacities complies both standards - ISO and ASTM for accuracy

## 2122 - BURETTES

### With Boroflo stopcock, Class B

- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with Boroflo stopcock
- No lubrication required
- Calibrated at 27°C
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2122006 | 10 | 0.05 | 0.05 | 10 | **730.00** |
| 2122009 | 25 | 0.10 | 0.10 | 10 | **690.00** |
| 2122012 | 50 | 0.10 | 0.10 | 5 | **770.00** |
| 2122016 | 100 | 0.20 | 0.20 | 5 | **1160.00** |



## 2123 - BURETTES

### With Glass stopcock, Class A, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Designed with straight bore stopcock that increases the life, compared to Boroflo stopcocks
- The glass stopcock enhances control and enables smoother action
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Generally used in Titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2123005 | 5 | 0.02 | 0.01 | 5 | **2415.00** |
| 2123006 | 10 | 0.05 | 0.03 | 5 | **2545.00** |
| 2123009 | 25 | 0.10 | 0.05 | 5 | **2500.00** |
| 2123012 | 50 | 0.10 | 0.05 | 5 | **2840.00** |
| 2123016 | 100 | 0.20 | 0.10 | 5 | **4095.00** |



## 2124 - BURETTES With

### Glass stopcock, Class B

- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Designed with straight bore stopcock that increases the life, compared to Boroflo stopcocks
- The glass stopcock enhances control and enables smoother action
- Calibrated at 27°C
- Generally used in Titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2124005 | 5 | 0.02 | 0.02 | 5 | **975.00** |
| 2124006 | 10 | 0.05 | 0.05 | 10 | **830.00** |
| 2124009 | 25 | 0.10 | 0.10 | 10 | **810.00** |
| 2124012 | 50 | 0.10 | 0.10 | 5 | **880.00** |
| 2124016 | 100 | 0.20 | 0.20 | 5 | **1230.00** |





## 2129 - BURETTES

### With PTFE stopcock, Class A, with Individual Calibration Certi icate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with PTFE stopcock that is highly resistant to chemical attack
- No lubrication required
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Generally used in Titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2129012 | 50 | 0.1 | 0.05 | 5 | **2840.00** |

Burettes of other capacities are on request

## 2130 - BURETTES With

### PTFE stopcock, Class B

- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with PTFE stopcock that is highly resistant to chemical attack
- No lubrication required
- Calibrated at 27°C
- Generally used in Titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2130012 | 50 | 0.1 | 0.1 | 5 | **1055.00** |



## 2131 - BURETTES

### With Boroflo stopcock, Class A, Amber, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with Boroflo stopcock
- No lubrication required
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2131009 | 25 | 0.10 | 0.05 | 5 | **3825.00** |
| 2131012 | 50 | 0.10 | 0.05 | 5 | **4240.00** |

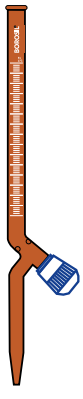


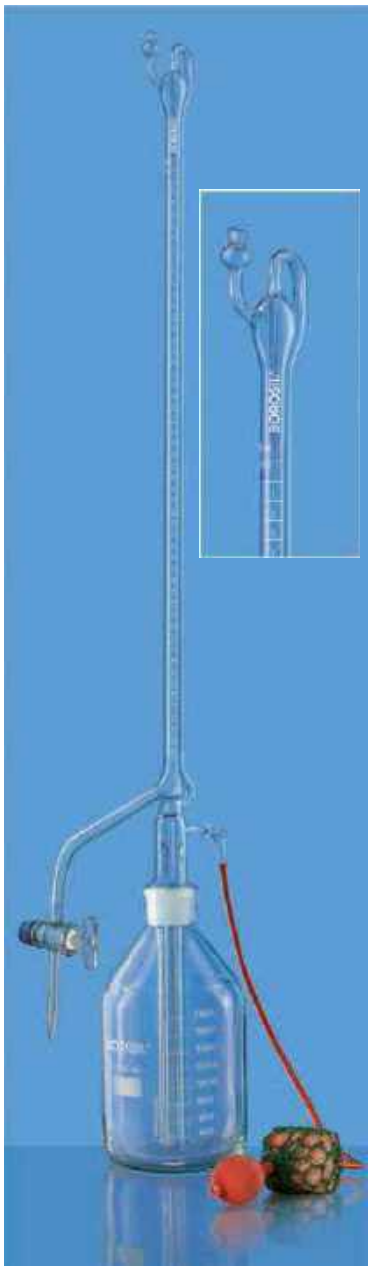
## 2132 - BURETTES

### With Boroflo stopcock, Class B, Amber

- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with Boroflo stopcock
- No lubrication required
- Calibrated at 27°C
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2132009 | 25 | 0.10 | 0.10 | 10 | **1115.00** |
| 2132012 | 50 | 0.10 | 0.10 | 5 | **1225.00** |





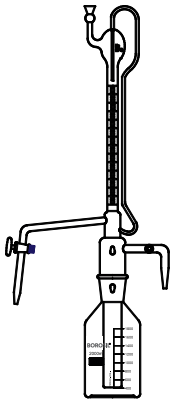
## 2149 - AUTOBURETTES

### With Glass stopcock, Class A, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Generally used in Titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2149006 | 10 | 0.05 | 0.03 | 1 | **9625.00** |
| 2149009 | 25 | 0.10 | 0.05 | 1 | **9315.00** |
| 2149012 | 50 | 0.10 | 0.05 | 1 | **10420.00** |
| 2149016 | 100 | 0.20 | 0.10 | 1 | **11860.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.





## 2150 - AUTOBURETTES

### With Glass stopcock, Class B

- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated at 27°C
- Generally used in Titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2150006 | 10 | 0.05 | 0.05 | 1 | **6315.00** |
| 2150009 | 25 | 0.10 | 0.10 | 1 | **6210.00** |
| 2150012 | 50 | 0.10 | 0.10 | 1 | **6730.00** |
| 2150016 | 100 | 0.20 | 0.20 | 1 | **7670.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.

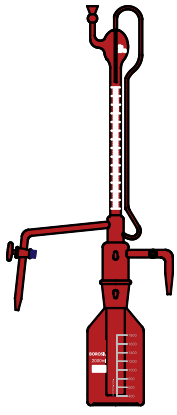
## 2149A - AUTOBURETTES

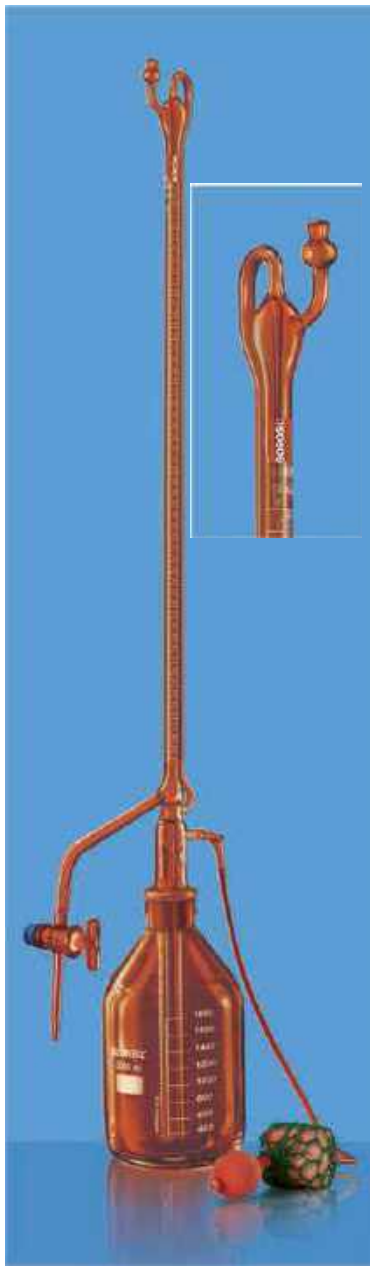
### With Glass stopcock, Class A, Amber, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Generally used in Titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2149A06 | 10 | 0.05 | 0.03 | 1 | **19795.00** |
| 2149A09 | 25 | 0.10 | 0.05 | 1 | **20985.00** |
| 2149A12 | 50 | 0.10 | 0.05 | 1 | **23090.00** |
| 2149A16 | 100 | 0.20 | 0.10 | 1 | **23855.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.





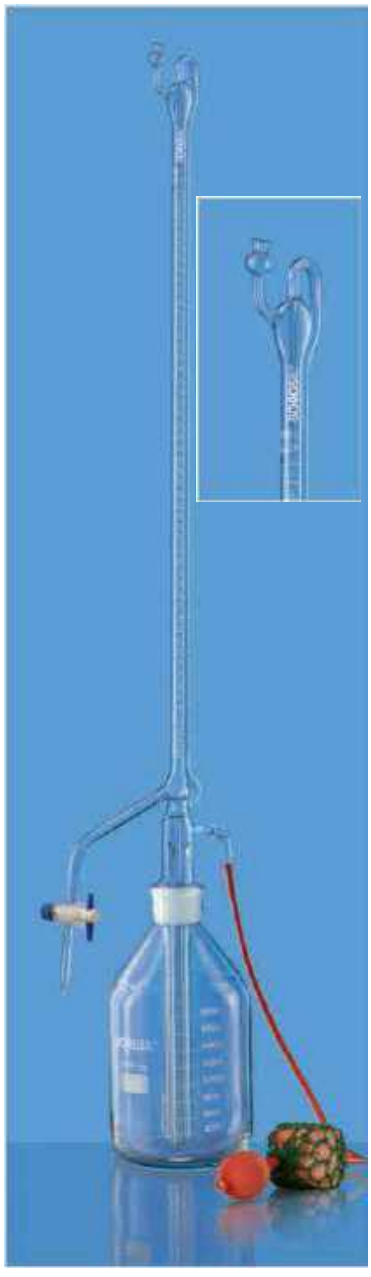
## 2150A - AUTOBURETTES With Glass stopcock, Class B, Amber



- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated at 27°C
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Generally used in Titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2150A06 | 10 | 0.05 | 0.05 | 1 | **13805.00** |
| 2150A09 | 25 | 0.10 | 0.10 | 1 | **14005.00** |
| 2150A12 | 50 | 0.10 | 0.10 | 1 | **14290.00** |
| 2150A16 | 100 | 0.20 | 0.20 | 1 | **14985.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.



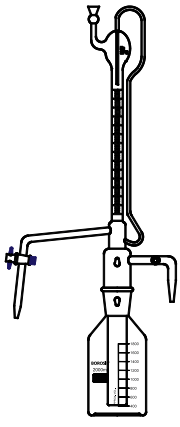
## 2153 - AUTOBURETTES

### With PTFE Stopcock, Class A, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with PTFE stopcock that is highly resistant to chemical attack
- Supplied with Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2153006 | 10 | 0.05 | 0.03 | 1 | **10155.00** |
| 2153009 | 25 | 0.10 | 0.05 | 1 | **9925.00** |
| 2153012 | 50 | 0.10 | 0.05 | 1 | **11005.00** |
| 2153016 | 100 | 0.20 | 0.10 | 1 | **12580.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.





## 2154 - AUTOBURETTES

### With PTFE stopcock, Class B

- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with PTFE stopcock that is highly resistant to chemical attack
- Supplied with Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated at 27°C
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2154006 | 10 | 0.05 | 0.05 | 1 | **6665.00** |
| 2154009 | 25 | 0.10 | 0.10 | 1 | **6525.00** |
| 2154012 | 50 | 0.10 | 0.10 | 1 | **7085.00** |
| 2154016 | 100 | 0.20 | 0.20 | 1 | **8045.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.

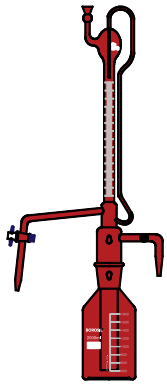
# 2153A - AUTOBURETTES

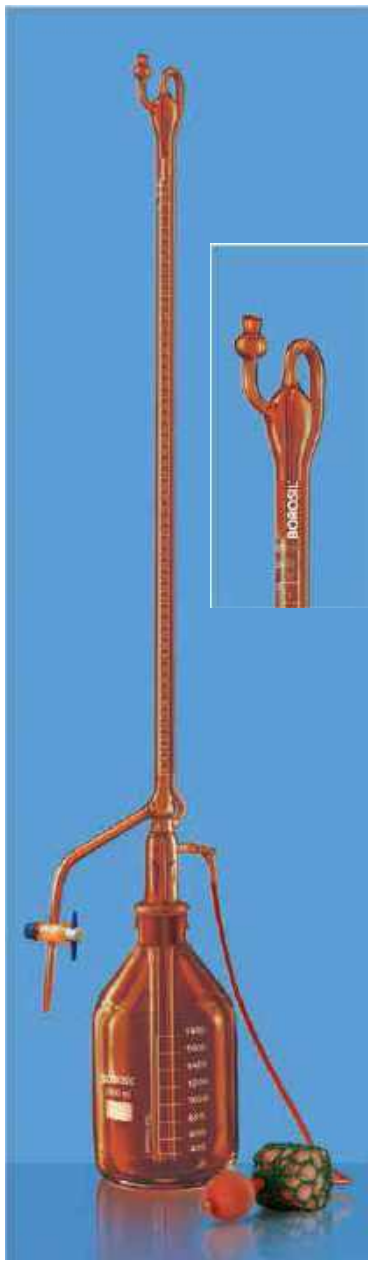
## With PTFE stopcock, Class A, Amber, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with PTFE stopcock that is highly resistant to chemical attack
- Supplied with Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2153A06 | 10 | 0.05 | 0.03 | 1 | **20530.00** |
| 2153A09 | 25 | 0.10 | 0.05 | 1 | **21915.00** |
| 2153A12 | 50 | 0.10 | 0.05 | 1 | **23995.00** |
| 2153A16 | 100 | 0.20 | 0.10 | 1 | **25110.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.





# 2154A - AUTOBURETTES

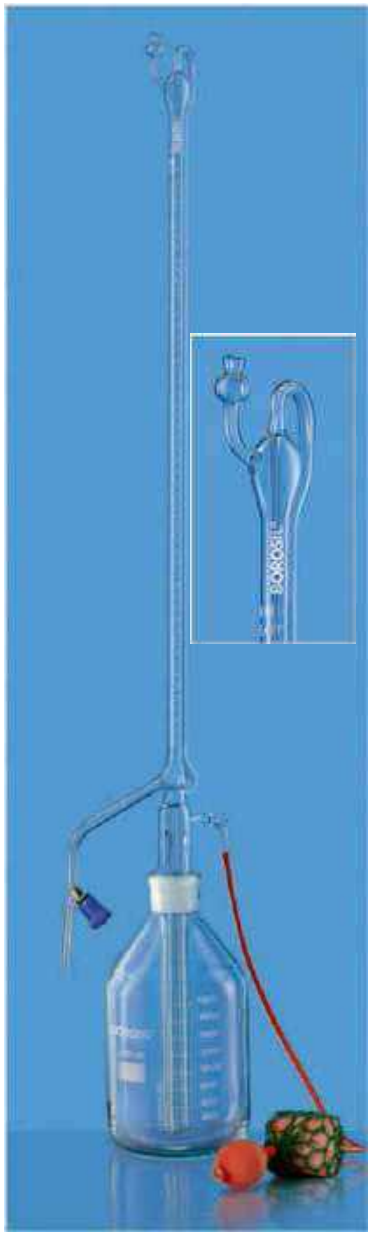
## With PTFE stopcock, Class B, Amber

- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with PTFE stopcock that is highly resistant to chemical attack
- Supplied with Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated at 27°C
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2154A06 | 10 | 0.05 | 0.05 | 1 | **14005.00** |
| 2154A09 | 25 | 0.10 | 0.10 | 1 | **13175.00** |
| 2154A12 | 50 | 0.10 | 0.10 | 1 | **13525.00** |
| 2154A16 | 100 | 0.20 | 0.20 | 1 | **14145.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.





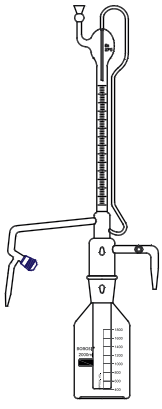
## 2155 - AUTOBURETTES

### With Boroflo stopcock, Class A, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with Boroflo stopcock, Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2155006 | 10 | 0.05 | 0.03 | 1 | **9300.00** |
| 2155009 | 25 | 0.10 | 0.05 | 1 | **9060.00** |
| 2155012 | 50 | 0.10 | 0.05 | 1 | **10060.00** |
| 2155016 | 100 | 0.20 | 0.10 | 1 | **11435.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.





## 2156 - AUTOBURETTES

### With Boroflo stopcock, Class B

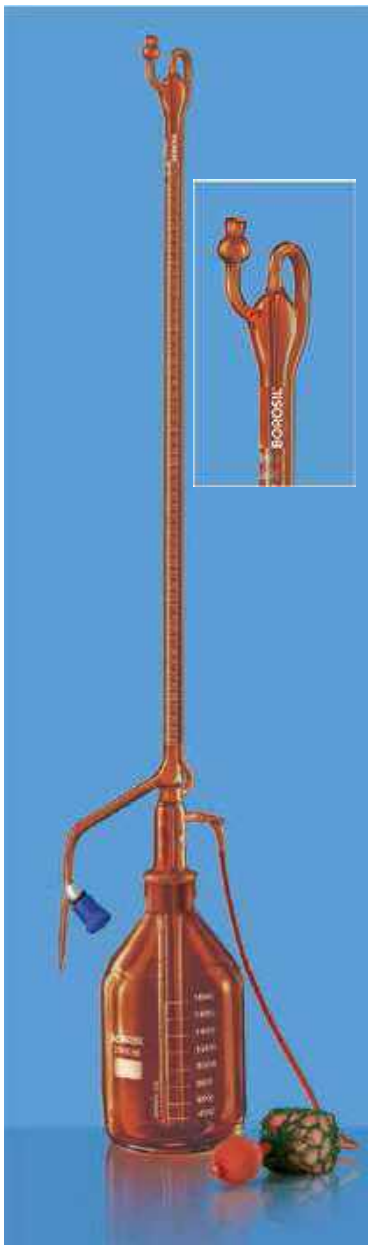
- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with Boroflo stopcock, Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated at 27°C
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2156006 | 10 | 0.05 | 0.05 | 1 | **6145.00** |
| 2156009 | 25 | 0.10 | 0.10 | 1 | **6005.00** |
| 2156012 | 50 | 0.10 | 0.10 | 1 | **6575.00** |
| 2156016 | 100 | 0.20 | 0.20 | 1 | **7550.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.

# 2155A - AUTOBURETTES

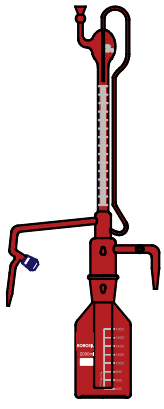
## With Boroflo stopcock, Class A, Amber, with Individual Calibration Certificate



- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with Boroflo stopcock, Reservoir and Rubber Bellow
- With automatic zero facility
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Calibrated & certified at 27°C and supplied with certificate of calibration traceable to National standards
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2155A06 | 10 | 0.05 | 0.03 | 1 | **19560.00** |
| 2155A09 | 25 | 0.10 | 0.05 | 1 | **20665.00** |
| 2155A12 | 50 | 0.10 | 0.05 | 1 | **22955.00** |
| 2155A16 | 100 | 0.20 | 0.10 | 1 | **23715.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.



# 2156A - AUTOBURETTES

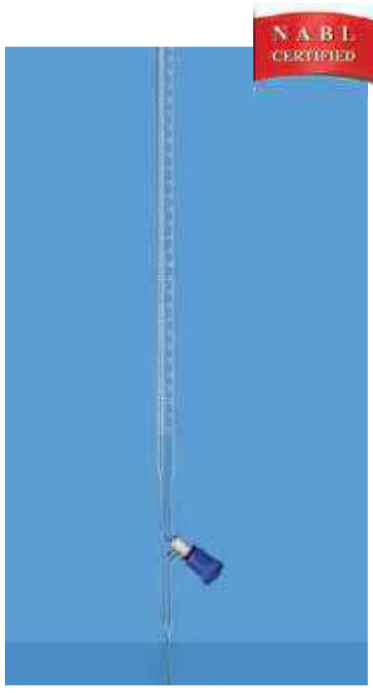
## With Boroflo stopcock, Class B, Amber



- Complies with IS 1997 / ISO 385, Accuracy as per class B
- Supplied with Boroflo stopcock, Reservoir and Rubber Bellow
- With automatic zero facility
- Calibrated at 27°C
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2156A06 | 10 | 0.05 | 0.05 | 1 | **13665.00** |
| 2156A09 | 25 | 0.10 | 0.10 | 1 | **13805.00** |
| 2156A12 | 50 | 0.10 | 0.10 | 1 | **14220.00** |
| 2156A16 | 100 | 0.20 | 0.20 | 1 | **14770.00** |

Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.



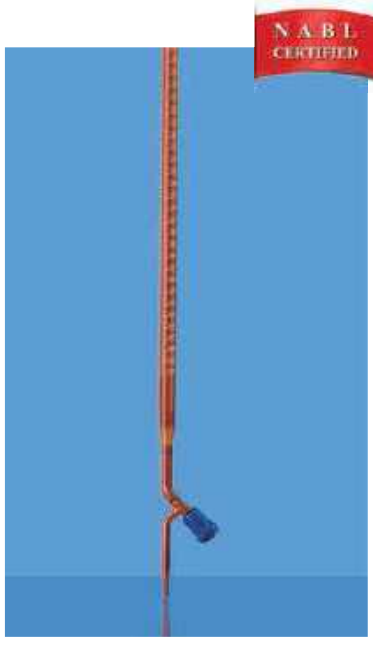


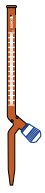

## 2000 - BURETTES

### With Boroflo stopcock, NABL Certified, Class A, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with Boroflo stopcock
- No lubrication required
- Calibrated & certified at 27°C and supplied with NABL certificate of calibration traceable to National standards
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2000006 | 10 | 0.05 | 0.03 | 1 | **4395.00** |
| 2000009 | 25 | 0.10 | 0.05 | 1 | **4550.00** |
| 2000012 | 50 | 0.10 | 0.05 | 1 | **5140.00** |
| 2000016 | 100 | 0.20 | 0.10 | 1 | **7220.00** |



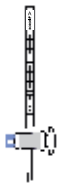
## 2001 - BURETTES

### With Boroflo stopcock, NABL Certified, Class A, Amber, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Supplied with Boroflo stopcock
- No lubrication required
- Calibrated & certified at 27°C and supplied with NABL certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2001009 | 25 | 0.1 | 0.05 | 1 | **6965.00** |
| 2001012 | 50 | 0.1 | 0.05 | 1 | **7900.00** |



## 2002 - BURETTES

### With Glass stopcock, NABL Certified, Class A, with Individual Calibration Certificate

- Complies with IS 1997 / ISO 385, Accuracy as per class A
- Designed with straight bore stopcock that increases the life, compared to PTFE key stopcocks
- The glass stopcock enhances control and enables smoother action
- Calibrated & certified at 27°C and supplied with NABL certificate of calibration traceable to National standards
- Generally used in titration process

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2002006 | 10 | 0.05 | 0.03 | 1 | **4525.00** |
| 2002009 | 25 | 0.10 | 0.05 | 1 | **4685.00** |
| 2002012 | 50 | 0.10 | 0.05 | 1 | **5350.00** |
| 2002016 | 100 | 0.20 | 0.10 | 1 | **7620.00** |

BOROSIL®

# Laboratory Accessories

**For safer experiments**



- TONGS
- CLAMPS
- CLAMP WITH BOSSHEADS
- BURETTE CLAMPS
- PLASTIC CLAMPS FOR JOINTS
- RETORT RING
- RETORT BASE
- ROD FOR RETORT BASE
- TEST TUBE STAND
- TEST TUBE HOLDER
- BURNER
- SPATULAS
- FORCEPS
- WIRE GAUGE
- TRIPOD

For more details please refer page no. 226-231

# Cones

Cones are used to determine small amounts of suspended matter in sewage by the Imhoff Sedimentation Method.

## Made from 3.3 Low Expansion Borosilicate Glass

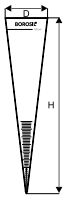
USP TYPE I

TYPE I ASTM E438 CLASS A

ISO 3585



## 2160 - IMHOFF CONE
### Sharp Tip



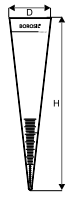




- Complies with IS 7232
- Graduated from 0 to 1 ml in 0.1 ml divisions
- Graduated from 1 to 10 ml in 0.5 ml divisions
- 10 to 40 ml in 1 ml divisions also marked at 1000 ml
- Facilitates the determination of the amount of sediment in sewage or industrial waste

| Product Code | Approx Total Height mm | Approx Top Diameter mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 2160094 | 454 | 110 | 1 | **6465.00** |

## 2180 - IMHOFF CONE Blunt Tip







- Complies with IS 7232
- The blunt tip increases its ruggedness and cleaning ease
- Ideal for use with heavy sediments where the ability to read small volumes is unimportant
- Facilitates the determination of the amount of sediment in sewage or industrial waste

| Product Code | Approx Total Height mm | Approx Top Diameter mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 2180093 | 439 | 110 | 1 | **6600.00** |

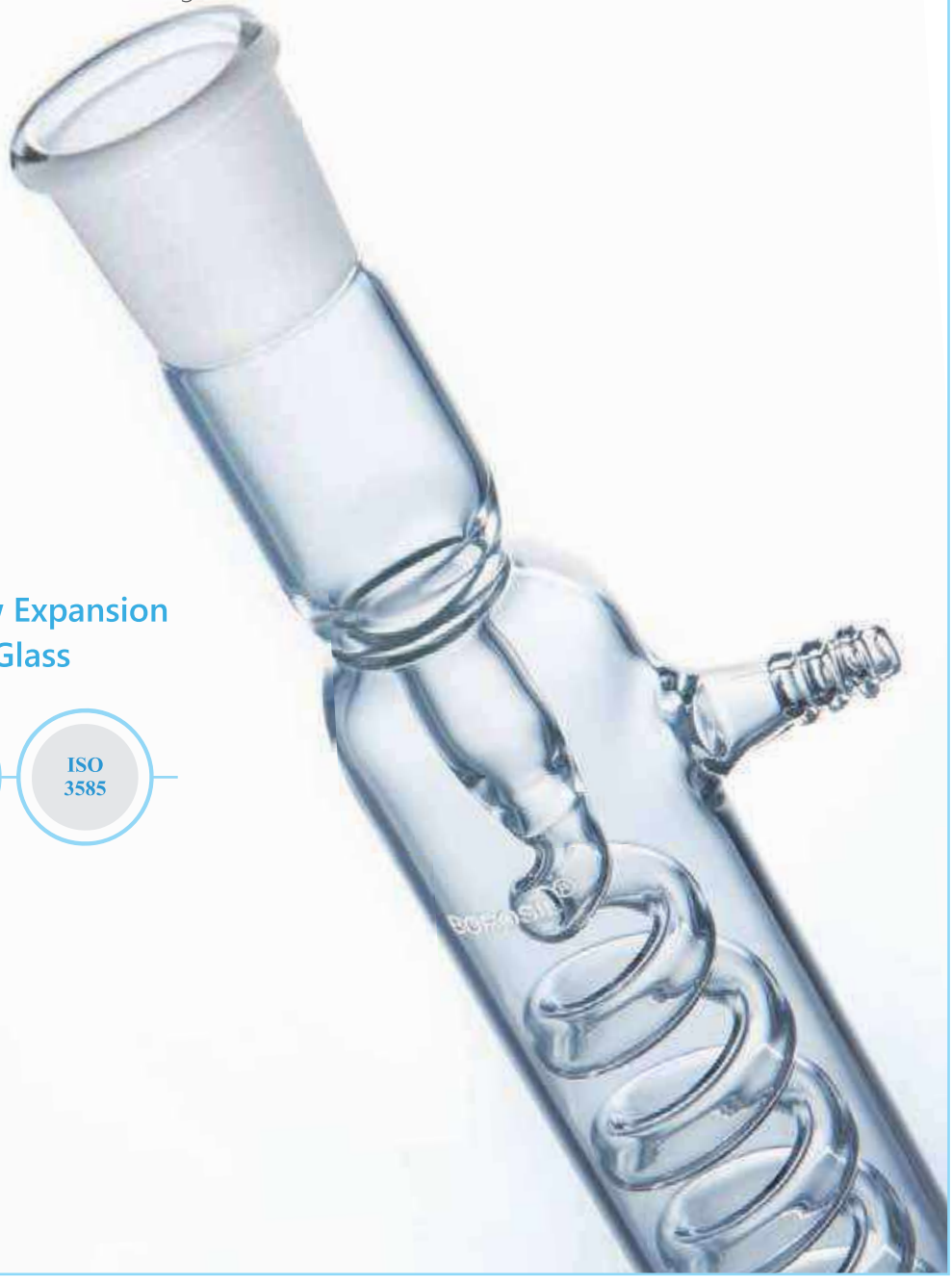
# Condensers

A Condenser is designed to facilitate the cooling of hot vapours and liquids. It is structured in the form of a large glass tube, containing a smaller glass tube running through its entire length. Hot fluids pass through this small inner tube.

Typically, the outer glass tube has two hose connections to aid the passing of a coolant (usually tap water or chilled water/anti-freeze mixture). The coolant is introduced through the lower fitting, while the higher fitting serves as the exit point. Entering the coolant at the cooler point is a critical aspect as it helps maintain a smooth and correctly directed thermal gradient. This in turn, maximises efficiency and minimises the risk of thermal shock to adjacent glassware. Multiple Condensers may be connected in a series. Usually, a high flow rate is not essential for maintaining a cooling surface.

Special care should be taken while choosing Condensers keeping in mind their distillation rates, reflux rates and temperature gradients.

Borosil offers you the choice of a wide range of Condensers.



**Made from 3.3 Low Expansion Borosilicate Glass**

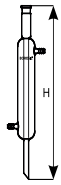
USP TYPE I

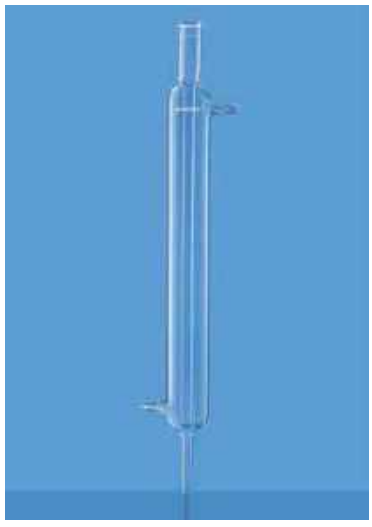
TYPE I ASTM E438 CLASS A

ISO 3585

## 2340 - LIEBIG CONDENSER

### With Sealed Inner Tube



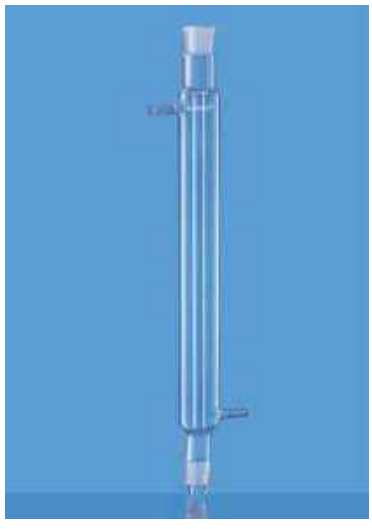
- Complies with IS 6052
- The light wall of the inner tube facilitates efficient heat transfer
- Low cooling capacity
- Used for distillate separation

| Product Code | Approx Jacket Length mm | Approx Overall Height mm | Ground Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2340087 | 200 | 350 | 19 / 15 | 5 | **665.00** |
| 2340090 | 300 | 450 | 19 / 15 | 5 | **565.00** |
| 2340092 | 400 | 550 | 19 / 15 | 5 | **590.00** |
| 2340095 | 500 | 650 | 19 / 15 | 5 | **720.00** |

## 2400 - LIEBIG CONDENSER

### With Drip Tip



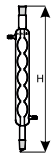



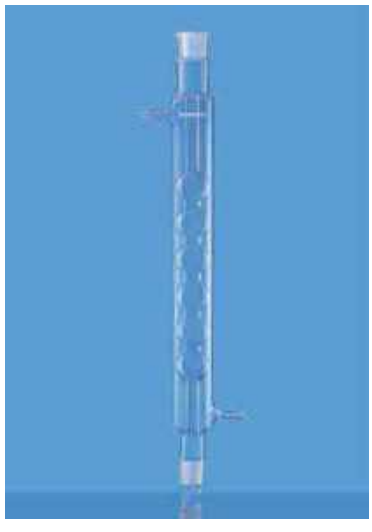
- Complies with IS 6052
- With interchangeable inner and outer joints
- The light wall of the inner tube facilitates efficient heat transfer
- Low cooling capacity
- Used for distillate separation

| Product Code | Approx Jacket Length mm | Approx Overall Height mm | Ground Joint | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| | | | Socket | Cone | | |
| 2400087 | 200 | 350 | 19 / 26 | 19 / 26 | 5 | **665.00** |
| NEW 2400A87 | 200 | 350 | 24 / 29 | 24 / 29 | 5 | **665.00** |
| 2400090 | 300 | 450 | 24 / 29 | 24 / 29 | 5 | **735.00** |
| NEW 2400A90 | 300 | 450 | 19 / 26 | 19 / 26 | 5 | **735.00** |
| 2400092 | 400 | 550 | 24 / 29 | 24 / 29 | 5 | **850.00** |
| NEW 2400A92 | 400 | 550 | 19 / 26 | 19 / 26 | 5 | **850.00** |

## 2480 - ALLIHN CONDENSER

### With Drip Tip

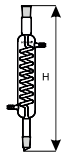


- Complies with IS 6052
- With Interchangeable Inner and Outer Joint
- Greater surface area than the Liebig Condenser owing to a series of bulbs, resulting in higher cooling capacity
- Ideal for laboratory scale refluxing

| Product Code | Approx Jacket Length mm | Approx Overall Height mm | Ground Joint | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| | | | Socket | Cone | | |
| 2480087 | 200 | 350 | 19 / 26 | 19 / 26 | 5 | **850.00** |
| NEW 2480A87 | 200 | 350 | 24 / 29 | 24 / 29 | 5 | **850.00** |
| 2480090 | 300 | 450 | 24 / 29 | 24 / 29 | 5 | **895.00** |
| NEW 2480A90 | 300 | 450 | 19 / 26 | 19 / 26 | 5 | **895.00** |
| 2480092 | 400 | 550 | 24 / 29 | 24 / 29 | 5 | **1040.00** |
| NEW 2480A92 | 400 | 550 | 29 / 32 | 29 / 32 | 5 | **1040.00** |
| 2480096 | 600 | 750 | 29 / 32 | 29 / 32 | 5 | **1405.00** |
| NEW 2480A96 | 600 | 750 | 24 / 29 | 24 / 29 | 5 | **1405.00** |



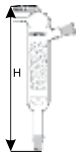



## 2560 - GRAHAM COILED CONDENSER
### With Drip Tip

- Complies with IS 6052
- With Interchangeable Inner and Outer Joint
- The coiled condensation tubes result in greater surface area for cooling
- Designed with top standard taper outer and lower inner drip tip joint

| Product Code | Approx Jacket Length mm | Approx Overall Height mm | Ground Joint | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| | | | Socket | Cone | | |
| 2560090 | 300 | 450 | 24 / 29 | 24 / 29 | 5 | **1025.00** |
| NEW 2560A90 | 300 | 450 | 19 / 26 | 19 / 26 | 5 | **1025.00** |
| 2560092 | 400 | 550 | 24 / 29 | 24 / 29 | 5 | **1050.00** |
| NEW 2560A92 | 400 | 550 | 29 / 32 | 29 / 32 | 5 | **1050.00** |
| 2560095 | 500 | 650 | 24 / 29 | 24 / 29 | 5 | **1325.00** |
| NEW 2560A95 | 500 | 650 | 29 / 32 | 29 / 32 | 5 | **1325.00** |



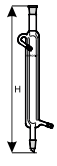



## 2640 - FRIEDRICH CONDERNSER
### With Drip Tip

- Complies with IS 6052
- With Interchangeable Inner and Outer Joint
- Specially designed inner spiral tubes ensure along vapour path
- Offer better heat transfer and anti-flooding capabilities

| Product Code | Approx Jacket Length mm | Ground Joint | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| | | Socket | Cone | | |
| 2640097 | 350 | 24 / 29 | 24 / 29 | 5 | **4110.00** |






## 2641 - DOUBLE SURFACE CONDERNSER

- Complies with IS 6052

| Product Code | Approx Jacket Length mm | Approx Overall Height mm | Ground Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2641087 | 200 | 345 | 19 / 26 | 5 | **2615.00** |
| 2641187 | 200 | 360 | 24 / 29 | 5 | **2785.00** |
| 2641090 | 300 | 454 | 19 / 26 | 5 | **3445.00** |
| 2641190 | 300 | 450 | 24 / 29 | 5 | **3765.00** |

The above condensers are widely used in research labs. A double-surface condenser has a water jacket both on the outside and through the centre of the condensing tube. It is needed where the condensed liquid is very volatile. Hence for distilling ethers, alcohols, easters, aromatics, petroleum products and essentials oils these condensers are widely used.

LABQUEST BY BOROSIL®

Delivering classical solution
with modernized approach.

# The only
# Soxhlet Apparatus

*with* ***ACTUAL TIME SETTING AND ENERGY PERCENTAGE DISPLAY***



- Extractor knob for solvent recovery
- Built in calibration for error setting.
- Safe temperature setting to prevent accidents.
- Rotary knob for precise setting of time, safe temperature and energy percentage regulation

Manufactured in BOROSIL® TECHNOLOGIES

SMART | RUGGED | PRACTICAL

For more details please refer page no. 247

# Cylinders

Measuring cylinders are the most common and essential measuring devices used in any laboratory. **BOROSIL®** Cylinders are made from heavy walled, machine drawn borosilicate glass tubing which makes them sturdy for daily laboratory use.

**BOROSIL®** offers cylinders from capacities 5ml to 2000ml, with penny head stoppers or cylinders without stoppers.

## Made from 3.3 Low Expansion Borosilicate Glass

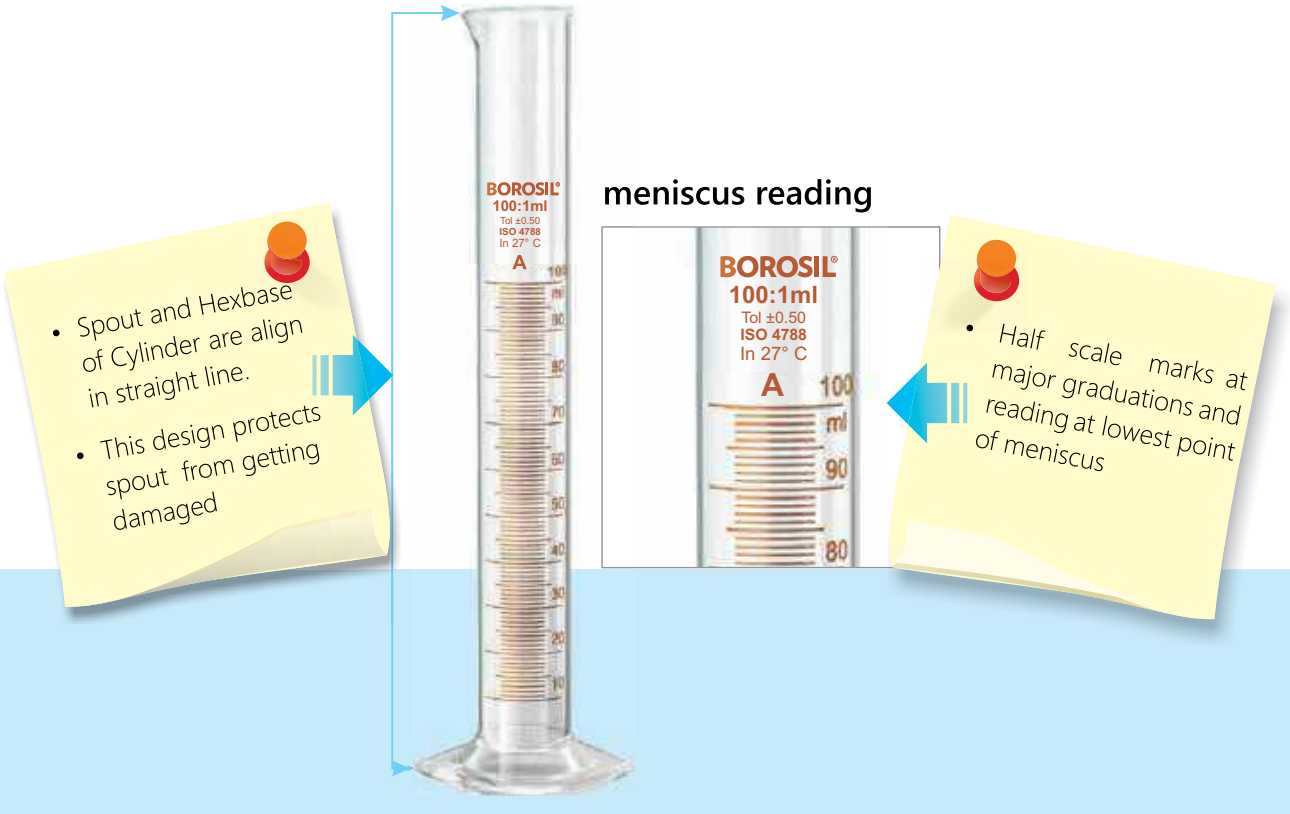
USP TYPE I

TYPE I ASTM E438 CLASS A

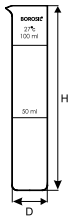
ISO 3585



- Complies with highest quality standards according to IS 878, ASTM E1272and ISO 4788
- All measuring cylinders are calibrated to contain ( TC, In ) and all tolerances are according to IS / ISO / DIN / ASTM class " A" Standards
- Individually calibrated on automatic calibration machine
- Available in both Class A and Class B tolerances
- Individual calibration certificate provided for Class A pipettes
- Graduation markings made using finest quality white enamel or amber ink to ensure maximum durability
- Stringent control throughout the process of manufacturing and quality checks minimizes the possibility of deviations
- Specially designed with hexagonal base for enhance stability
- Spout allows drip free pouring








## 2975 - NESSLER CYLINDERS

- Complies with IS 4161
- Facilitates colour comparison of water samples, freedom from colour or visible defects
- White enamel inscriptions
- Calibrated at 27°C

| Product Code | Capacity ml | Approx O.D. x Height | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| NEW 2975009 | 25 | 19 x 165 | 0.20 | 10 | **205.00** |
| 2975012 | 50 | 25 x 150 | 0.40 | 20 | **220.00** |
| 2975016 | 100 | 34 x 180 | 0.80 | 30 | **320.00** |





## 2981 - CYLINDERS

### Class A, Hexagonal Base, with I/C Stopper, with Individual Calibration Certificate

- Complies with IS 878, ISO 4788
- Supplied with Interchangeable Penny head Stopper
- Graduated, Single Metric Scale
- Each cylinder is engraved with a unique serial number, and comes with a Certificate of Calibration traceable to national standards
- Graduations in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Calibrated and certified at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 2981005 | 5 | 0.1 | 0.05 | 10 / 19 | 5 | **920.00** |
| 2981006 | 10 | 0.2 | 0.10 | 10 / 19 | 5 | **1015.00** |
| 2981009 | 25 | 0.5 | 0.25 | 14 / 23 | 10 | **1165.00** |
| 2981012 | 50 | 1 | 0.50 | 14 / 23 | 10 | **1320.00** |
| 2981016 | 100 | 1 | 0.50 | 19 / 26 | 10 | **1545.00** |
| 2981021 | 250 | 2 | 1 | 24 / 29 | 5 | **2425.00** |
| 2981024 | 500 | 5 | 2.5 | 24 / 29 | 5 | **3115.00** |
| 2981029 | 1000 | 10 | 5 | 34 / 35 | 4 | **3810.00** |
| 2981030 | 2000 | 20 | 10 | 34 / 35 | 4 | **6060.00** |

## 2982 - CYLINDERS

### Class B, Hexagonal Base, with I/C Stopper





- Complies with IS 878, ISO 4788
- Supplied with Interchangeable Penny head Stopper
- Graduated, Single Metric Scale
- Graduations in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Calibrated at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 2982005 | 5 | 0.1 | 0.1 | 10 / 19 | 5 | **490.00** |
| 2982006 | 10 | 0.2 | 0.2 | 10 / 19 | 5 | **520.00** |
| 2982009 | 25 | 0.5 | 0.5 | 14 / 23 | 10 | **580.00** |
| 2982012 | 50 | 1 | 1 | 14 / 23 | 10 | **655.00** |
| 2982016 | 100 | 1 | 1 | 19 / 26 | 10 | **805.00** |
| 2982021 | 250 | 2 | 2 | 24 / 29 | 10 | **1360.00** |
| 2982024 | 500 | 5 | 5 | 24 / 29 | 5 | **1890.00** |
| 2982029 | 1000 | 10 | 10 | 34 / 35 | 4 | **2725.00** |
| 2982030 | 2000 | 20 | 20 | 34 / 35 | 4 | **4710.00** |

## 2983 - CYLINDERS

### USP, Class A, Hexagonal Base, with I/C Stopper, with Individual Calibration Certificate

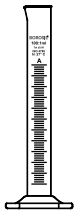




- Tolerance complies with ASTM E 1272 and dimension as per ISO 4788
- Supplied with Interchangeable Penny head Stopper
- Graduated, Single Metric Scale
- Each cylinder is engraved with a unique serial number, and comes with a Certificate of Calibration traceable to national standards
- Graduations in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Calibrated and certified at 20°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 2983005 | 5 | 0.1 | 0.05 | 10 / 19 | 5 | **960.00** |
| 2983006 | 10 | 0.2 | 0.10 | 10 / 19 | 5 | **1105.00** |
| 2983009 | 25 | 0.5 | 0.17 | 14 / 23 | 10 | **1245.00** |
| 2983012 | 50 | 1 | 0.25 | 14 / 23 | 10 | **1485.00** |
| 2983016 | 100 | 1 | 0.50 | 19 / 26 | 10 | **1660.00** |
| 2983021 | 250 | 2 | 1 | 24 / 29 | 5 | **2670.00** |
| 2983024 | 500 | 5 | 2 | 24 / 29 | 5 | **3180.00** |
| 2983029 | 1000 | 10 | 3 | 34 / 35 | 4 | **3920.00** |
| 2983030 | 2000 | 20 | 6 | 34 / 35 | 4 | **7345.00** |





## 3021 - CYLINDERS

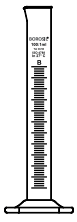
### Class A, Hexagonal base, Pour out, with Individual Calibration Certificate

- Complies with IS 878, ISO 4788
- Graduated, Single Metric Scale
- Each cylinder is engraved with a unique serial number, and comes with a Certificate of Calibration traceable to national standards
- Graduations in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Calibrated and certified at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3021005 | 5 | 0.1 | 0.05 | 5 | **555.00** |
| 3021006 | 10 | 0.2 | 0.1 | 5 | **635.00** |
| 3021008 | 20* | 0.1 | 0.25 | 10 | **810.00** |
| 3021009 | 25 | 0.5 | 0.25 | 10 | **730.00** |
| 3021012 | 50 | 1 | 0.5 | 10 | **885.00** |
| 3021016 | 100 | 1 | 0.5 | 10 | **1005.00** |
| 3021018 | 150* | 2 | 1 | 5 | **1335.00** |
| 3021021 | 250 | 2 | 1 | 10 | **1480.00** |
| 3021024 | 500 | 5 | 2.5 | 5 | **2065.00** |
| 3021029 | 1000 | 10 | 5 | 4 | **2520.00** |
| 3021030 | 2000 | 20 | 10 | 4 | **4900.00** |

* As per Borosil standards.





## 3022 - CYLINDERS

### Class B, Hexagonal base, Pour out

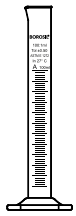
- Complies with IS 878, ISO 4788
- Graduated, Single Metric Scale
- Certificate of Calibration traceable to national standards
- Graduations in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Calibrated at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3022005 | 5 | 0.1 | 0.1 | 5 | **305.00** |
| 3022006 | 10 | 0.2 | 0.2 | 5 | **365.00** |
| 3022009 | 25 | 0.5 | 0.5 | 10 | **420.00** |
| 3022012 | 50 | 1 | 1 | 20 | **460.00** |
| 3022016 | 100 | 1 | 1 | 20 | **520.00** |
| 3022018 | 150* | 2 | 2 | 5 | **770.00** |
| 3022021 | 250 | 2 | 2 | 10 | **965.00** |
| 3022024 | 500 | 5 | 5 | 5 | **1255.00** |
| 3022029 | 1000 | 10 | 10 | 4 | **1905.00** |
| 3022030 | 2000 | 20 | 20 | 4 | **3655.00** |

*150 ml Not covered in any standards.

## 3026 - CYLINDERS

### ASTM, Class A, Hexagonal base, Pour out, with Individual Calibration Certificate



- Complies with ASTM E 1272
- Graduated, Single Metric Scale
- Each cylinder is engraved with a unique serial number, and comes with a Certificate of Calibration traceable to national standards
- Graduations in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Calibrated and certified at 20°C



| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3026005 | 5 | 0.1 | 0.05 | 5 | **660.00** |
| 3026006 | 10 | 0.2 | 0.10 | 5 | **760.00** |
| 3026009 | 25 | 0.5 | 0.17 | 5 | **860.00** |
| 3026012 | 50 | 1 | 0.25 | 5 | **1025.00** |
| 3026016 | 100 | 1 | 0.50 | 5 | **1145.00** |
| 3026021 | 250 | 2 | 1 | 5 | **1665.00** |
| 3026024 | 500 | 5 | 2 | 4 | **2190.00** |
| 3026029 | 1000 | 10 | 3 | 4 | **2705.00** |
| 3026030 | 2000 | 20 | 6 | 4 | **5060.00** |

## 3027 - CYLINDERS

### ASTM, Class B, Hexagonal base, Pour out

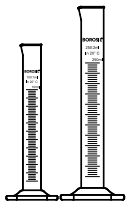


- Complies with ASTM E 1272
- Graduated, Single Metric Scale
- Each cylinder is engraved with a unique serial number, and comes with a Certificate of Calibration traceable to national standards
- Graduations in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Calibrated at 20°C



| Till stock lasts | | | | | |
|---|---|---|---|---|---|
| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
| 3027005 | 5 | 0.1 | 0.1 | 5 | **385.00** |
| 3027006 | 10 | 0.2 | 0.2 | 5 | **440.00** |
| 3027009 | 25 | 0.5 | 0.34 | 10 | **520.00** |
| 3027012 | 50 | 1 | 0.5 | 10 | **580.00** |
| 3027016 | 100 | 1 | 1 | 10 | **635.00** |
| 3027021 | 250 | 2 | 2 | 10 | **1110.00** |
| 3027024 | 500 | 5 | 4 | 5 | **1385.00** |
| 3027029 | 1000 | 10 | 6 | 4 | **2060.00** |
| 3027030 | 2000 | 20 | 12 | 4 | **3800.00** |

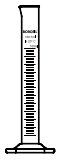




## 3032 - TAPPED DENSITY CYLINDER

- As Per USP, Ch. 616
- Supplied as a set of two cylinders
- Used in tapped density apparatus to measure bulk density of powders
- Graduation in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Calibrated at 20°C

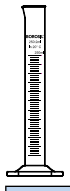
| Product Code | Capacity ml | Quantity Per Case Set | Price / Set ₹ |
|---|---|---|---|
| 3032041 | 100 & 250 | 1 Each | **3090.00** |



## 3033 - TAPPED DENSITY CYLINDER

- As Per USP, Ch. 616

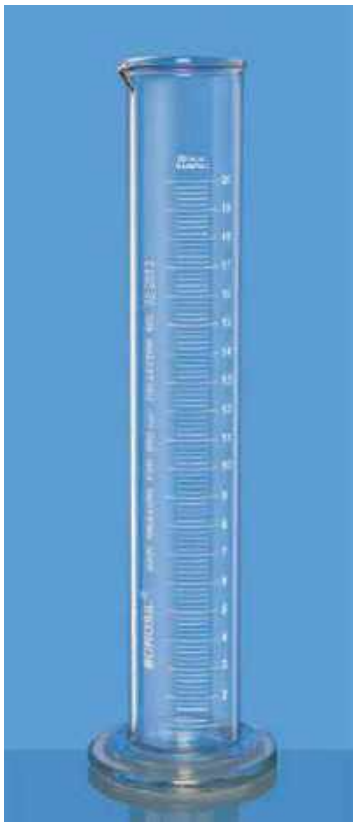
| Product Code | Capacity ml | Quantity Per Case Set | Price / Piece ₹ |
|---|---|---|---|
| 3033016 | 100 | 2 | **1610.00** |



## 3034 - TAPPED DENSITY CYLINDER

- As Per USP, Ch. 616

| Product Code | Capacity ml | Quantity Per Case Set | Price / Piece ₹ |
|---|---|---|---|
| 3034021 | 250 | 2 | **1855.00** |





## 3070 - RAIN MEASURE CYLINDERS

### Round base

- Complies with IS 4849
- Graduated, Single metric scale
- Graduation in white enamel
- The cylinders are graduated to indicate rainfall in mm when used with appropriate rain collector
- Calibrated at 27°C

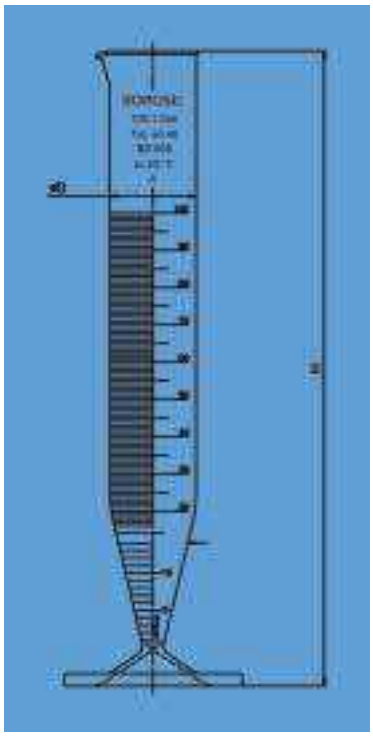
| Product Code | Size mm | Used For Collector Area $cm^2$ | Graduation Interval mm | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 3070096 | 20 | 200 | 0.2 | 0.05 | 5 | **1390.00** |
| 3070098 | 20 | 100 | 0.2 | 0.10 | 10 | **1625.00** |

## 3041 - CROW CYLINDER NEW

### Class A, with Individual Calibration Certificate

- Complies with BS 658 standard
- Graduated Single metric scale
- Each cylinder is engraved with a unique serial number and is provided with a calibration certificate traceable to national standards
- Graduations in amber enamel
- Calibrated and certified at 20°C
- Ideal for the collection and measurement of distillate in oil and jar tests

| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3041016 | 100 | 0.4 | 5 | **1650.00** |



## 2010 - CYLINDERS

### NABL Certified, Class A, Hexagonal base, Pour out, with Individual Calibration Certificate



- Complies with IS 1997, ISO 4788
- Graduated, Single Metric Scale
- Calibrated & certified at 27°C and supplied with NABL certificate of calibration traceable to National standards
- Graduations in amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2010005 | 5 | 0.1 | 0.05 | 1 | **1480.00** |
| 2010006 | 10 | 0.2 | 0.10 | 1 | **1450.00** |
| 2010009 | 25 | 0.5 | 0.25 | 1 | **1690.00** |
| 2010012 | 50 | 1 | 0.50 | 1 | **2000.00** |
| 2010016 | 100 | 1 | 0.50 | 1 | **2260.00** |
| 2010018 | 150* | 2 | 1 | 1 | **3035.00** |
| 2010021 | 250 | 2 | 1 | 1 | **3425.00** |
| 2010024 | 500 | 5 | 2.5 | 1 | **4655.00** |
| 2010029 | 1000 | 10 | 5 | 1 | **5760.00** |
| 2010030 | 2000 | 20 | 10 | 1 | **7355.00** |

* 150 ml not covered in standard.



# Desiccator

**BOROSIL®** brand Desiccators are equipped with bodies and covers that have great strength and utility. The body is designed with a streamlined contour that facilitates easy cleaning of the used desiccant. Any desiccant such as sulphuric acid, phosphoric pentoxide, calcium chloride or silica gel may be used in Borosil brand Desiccators.For your convenience, all Borosil brand Plain Desiccators of the same size have interchangeable covers and bodies. When the ground surface is cleaned and greased, Vacuum type Desiccators hold a vacuum of 500 mm of mercury.





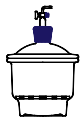
## 3082 - DESICCATOR SET With Cover & Porcelain Plate

- Complies with IS 6128
- Supplied with cover and porcelain plate, plastic knob
- Simple design for drying under atmospheric pressure
- Ground glass flanges
- Plates are positioned on an internal ledge within the base
- Generally used for drying of moist products, and for storage of moisture-sensitive substances

| Product Code | Nominal Diameter mm | Approx Volume ml | Approx Flange OD mm | Approx Total Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 3082041 | 100 | 120 | 153 | 173 | 1 | **9215.00** |
| 3082042 | 150 | 410 | 213 | 205 | 1 | **10755.00** |
| 3082043 | 200 | 975 | 272 | 272 | 1 | **14990.00** |
| 3082044 | 250 | 1825 | 333 | 323 | 1 | **19150.00** |
| 3082045 | 300 | 2555 | 395 | 344 | 1 | **26940.00** |

**Spare porcelain plate available on request**





## 3083 - VACUUM DESICCATOR SET With Cover & Porcelain Plate

- Complies with IS 6128
- Supplied with with cover having stopcock with PTFE spindle, porcelain plate and plastic knob
- Simple design for drying under atmospheric pressure
- Ground glass flanges
- Plates are positioned on an internal ledge within the base
- Designed for use under vacuum
- Generally used for drying of moist products, and for storage of moisture-sensitive substances

| Product Code | Nominal Diameter mm | Approx Volume ml | Approx Flange OD mm | Total Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 3083041 | 100 | 120 | 153 | 173 | 1 | **14115.00** |
| 3083042 | 150 | 410 | 213 | 205 | 1 | **21235.00** |
| 3083043 | 200 | 975 | 272 | 272 | 1 | **23835.00** |
| 3083044 | 250 | 1825 | 333 | 323 | 1 | **33085.00** |
| 3083045 | 300 | 2555 | 395 | 344 | 1 | **41565.00** |

**Spare porcelain plate and stopcock available on request**

## 3084 - DESICCATOR SET With Cover & Porcelain Plate Amber





- Complies with IS 6128
- Supplied with with cover and porcelain plate, plastic knob
- Simple design for drying under atmospheric pressure
- Ground glass flanges
- Plates are positioned on an internal ledge within the base
- Amber coating to protect light sensitive chemicals
- Generally used for drying of moist products, and for storage of moisture-sensitive substancesto prteto

| Product Code | Nominal Diameter mm | Approx Flange OD mm | Total Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3084041 | 100 | 153 | 173 | 1 | **12180.00** |
| 3084042 | 150 | 213 | 205 | 1 | **13955.00** |
| 3084043 | 200 | 272 | 272 | 1 | **17990.00** |
| 3084044 | 250 | 333 | 323 | 1 | **22855.00** |
| 3084045 | 300 | 395 | 344 | 1 | **35765.00** |

**Spare cover and porcelain plate available on request**

## 3085 - VACUUM DESICCATOR SET With Cover & Porcelain Plate, Amber





- Complies with IS 6128
- Supplied with with cover having stopcock with PTFE spindle, porcelain plate and plastic knob
- Simple design for drying under atmospheric pressure
- Ground glass flanges
- Plates are positioned on an internal ledge within the base
- Designed for use under vacuum
- Amber coating to protect light sensitve chemicals
- Generally used for drying of moist products, and for storage of moisture-sensitive substances

| Product Code | Nominal Diameter mm | Approx Volume ml | Approx Flange OD mm | Total Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 3085041 | 100 | 120 | 153 | 173 | 1 | **22135.00** |
| 3085042 | 150 | 410 | 213 | 205 | 1 | **28430.00** |
| 3085043 | 200 | 975 | 272 | 272 | 1 | **31070.00** |
| 3085044 | 250 | 1825 | 333 | 323 | 1 | **44775.00** |
| 3085045 | 300 | 2555 | 395 | 344 | 1 | **50230.00** |

**Spare porcelain plate and stopcock available on request**

Steps for Assembling Vacuum Desiccator



| STEP 1 | STEP 2 | STEP 3 | STEP 4 | STEP 5 |
|---|---|---|---|---|
| Remove the different parts supplied with the Desiccator<br>• Bottom<br>• Lid<br>• Porcelain plate<br>• Stop cock | Place the porcelain plate in the bottom part of the desiccator | Place the lid over it | Remove the blue knob from the lid and fit the stopcock in blue knob | Screw the blue knob along with the stopcock on the lid Connect the desiccator to a vacuum source (pressure 1 bar) with a rubber tube. |

# Dishes

**BOROSIL®** brand Dishes are designed to fulfil your wide-ranging needs - Crystallizing, Evaporating, Drying, Storing, Petri dishes for culture, assay and micro-biological works. All **BOROSIL®** brand Dishes are safe, durable and economical.

**BOROSIL®** brand Dishes are inert, can be sterilised and remain clear even after repeated use and washing. With each subsequent use, the cost per Dish decreases.

## Made from 3.3 Low Expansion Borosilicate Glass

USP TYPE I

TYPE I ASTM E438 CLASS A

ISO 3585

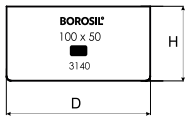









## 3140 - CRYSTALLIZING DISHES






- Reinforced and fire-polished rims reduce chipping
- Large labelling field for easy marking
- Very high resistance to chemicals and thermal shocks
- Ideal for crystallization and in hot/ice baths

| Product Code | Approx O.D. x Height mm | Approx Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3140077 | 100 x 50 | 330 | 10 | **570.00** |
| 3140081 | 150 x 75 | 1150 | 10 | **1000.00** |
| 3140086 | 190 x 100 | 2500 | 4 | **1660.00** |

## 3160 - PETRI DISHES (3.3 Borosilicate)



- Made of 3.3 low expansion borosilicate glass
- Complies with IS 2626
- These dishes are clear and withstand repeated sterilisation cycles (wet or dry)
- Beaded edges impart greater mechanical strength
- Specially formed to ensure even wall thickness and consistent optical performance
- Ideal culture vessel for microbiology and plant tissue culture applications

| Product Code | Size mm | LID Approx I.D. (D1) x Height (H1) mm | Bottom Approx O.D. (D2) x Height (H2) mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3160065 | 50 x 17 | 53 x 15 | 50 x 17 | 100 | **225.00** |
| 3160072 | 80 x 17 | 83 x 15 | 80 x 17 | 100 | **290.00** |
| 3160077 | 100 x 17# | 103 x 15 | 100 x 17# | 100 | **340.00** |
| 3160081 | 150 x 20 | 153 x 17 | 150 x 20 | 40 | **835.00** |
| 3160087 | 200 x 20 | 203 x 20 | 200 x 20 | 10 | **1800.00** |

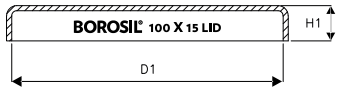
# Not covered in standard

## 3165 - S LINE PETRI DISHES

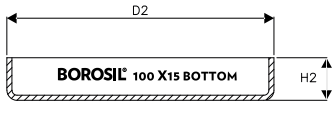


- Made of sodalime glass
- **S-Line petri dishes with durable white enamel printing - with lid and bottom mentioned on it**
- Helps in quick identification of the lid and the bottom while sorting and pairing the petri dishes during use
- Optically clear and bubble free for making critical observations
- Flat inner surface for uniform distribution of media
- Ideal culture vessel for microbiology and plant tissue culture applications

| Product Code | Size mm | LID Approx I.D. (D1) x Height (H1) mm | Bottom Approx O.D. (D2) x Height (H2) mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3165065 | 50 x 12 | 46 x 8 | 44 x 12 | 100 | **105.00** |
| 3165072 | 80 x 15 | 76 x 12 | 74 x 15 | 100 | **120.00** |
| 3165A75 | 90 x 15 | 86 x 12 | 84 x 15 | 100 | **120.00** |
| 3165077 | 100 x 15 | 96 x 12 | 94 x 15 | 100 | **120.00** |
| 3165A77 | 100 x 20 | 96 x 15 | 94 x 20 | 100 | **185.00** |
| 3165081 | 150 x 25 | 143 x 18 | 141 x 25 | 40 | **285.00** |
| 3165087 | 200 x 30 | 195 x 24 | 192 x 30 | 10 | **605.00** |

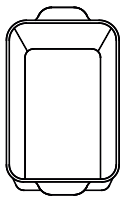



LID (ID)




BOTTOM (OD)



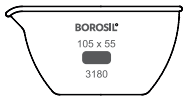


## 3170 - DRYING TRAYS

- Made with a heavy wall, withstand hot air or stream sterilization
- Facilitates paper chromatography
- Dimensions are approximate, representing the inside

| Product Code | Approx Dimension mm | Approx Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3170044 | 320 x 180 x 51 | 1500 | 5 | **720.00** |
| 3170043 | 350 x 200 x 58 | 2400 | 5 | **1010.00** |
| 3170042 | 386 x 217 x 63 | 3000 | 5 | **1400.00** |
| 3170041 | 404 x 257 x 61 | 3500 | 5 | **1680.00** |






## 3180 - FLAT BOTTOM EVAPORATING DISHES

### With Spout

- Withstands repeated sterilisation (Wet or dry)
- Designed with a spout to facilitate clean pouring
- Very high resistance to chemicals and thermal shocks
- Beaded edge give greater mechanical strength
- Ideal for evaporating solvents in hot/ice baths

| Product Code | Approx Dimension mm | Approx Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3180072 | 80 x 45 | 165 | 10 | **495.00** |
| 3180078 | 105 x 55 | 290 | 10 | **695.00** |
| 3180081 | 150 x 80 | 855 | 10 | **1295.00** |
| 3180087 | 200 x 100 | 1790 | 8 | **2385.00** |


an ISO 9001: 2015 certified company | PRICES EXCLUSIVE OF TAXES | For products listed on this page use HSN code 70179090
For more details please refer page no. 247

BOROSIL®

# S LINE

## Petri Dishes



### Culture vessel for

- Microbial applications
- Plant tissue culture applications



# Distilling Apparatus

Most of the distillation equipment required in an average laboratory can be constructed using standard Borosil components. Distillation assemblies for specific applications are available as complete units, as listed herein.

## Made from 3.3 Low Expansion Borosilicate Glass

USP TYPE I

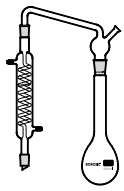
TYPE I ASTM E438 CLASS A

ISO 3585



## 3340-DISTILLING APPARATUS

### With Graham Condenser And Interchangeable Joints



- Ideal for determining nitrogen in organic compounds
- Digestion and distillation stages can be performed in this apparatus
- The inlet tube allows permanganate solution to be introduced after distillation
- Large labelling field for easy marking

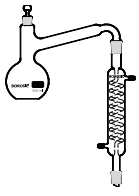


| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3340024 | 500 | 2 Set | **4125.00** |

Spare parts available on request

## 3360-DISTILLING APPARATUS

### With Graham Condenser, Interchangeable Joints and Stopper



- Ideal for batch production of high purity distilled water
- General purpose Batch Distillation Assembly equipped
- with an interchangeable stoppered neck that facilitates addition
- The Flask has a flat base with a delivery tube on the side

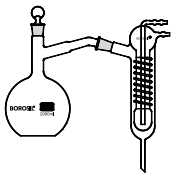


| Product Code | Capacity ml | Condenser Jacket mm | Inter-changeable Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3360024 | 500 | 200 | 19 /26 | 2 Set | **4130.00** |

Spare parts available on request

## 3380- DISTILLING APPARATUS

### with Friedrichs Condenser, Interchangeable Joint and Stopper



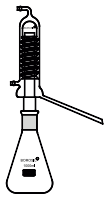
- Ideal for batch production of high purity distilled water
- With Friedrich's Spiral Condenser for higher distillation rates
- General purpose Batch Distillation Assembly equipped with an interchangeable stoppered neck that facilitates addition
- The Flask has a flat base with a delivery tube on the side



| Product Code | Capacity ml | Interchange-able Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3380030 | 2000 | 24 / 29 | 1 Set | **5650.00** |

Spare parts available on request





## 3440-DISTILLING APPARATUS

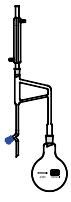
### with Friedrichs Condenser, Interchangeable Joint

- Compact
- A compact distillation assembly with specially designed Friedrich's Condensers
- This Condenser is designed with vapour tubing rising at
- A 1000 ml Erlenmeyer Flask is provided with an interchangeable 34/35 joint

| Product Code | Capacity ml | Interchange-able Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3440029 | 1000 | 34 / 35 | 2 Set | **5280.00** |

**Spare parts available on request**





## 3450-ESSENTIAL OIL DETERMINATION APPARATUS

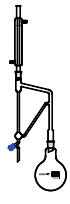
### (Clevenger Apparatus), As per IS 1797

- Ideal for estimation of **volatile oil that is heavier than water**
- Supplied with a 5 ml Receiver with stopcock, an Oil Separator Tube, a condenser and 1000 ml flask

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3450029 | 1000 | 1 Set | **9510.00** |
| 3450030 | 2000 | 1 Set | **On request** |
| 3450033 | 5000 | 1 Set | **On request** |
| 3450038 | 10000 | 1 Set | **On request** |
| 3450040 | 20000 | 1 Set | **On request** |

**Spare parts available on request**





## 3451-ESSENTIAL OIL DETERMINATION APPARATUS

### (Clevenger Apparatus)

- Ideal for estimation of **volatile oil that is lighter than water**
- Supplied with a 5 ml Receiver with stopcock, an Oil Separator Tube, a condenser and 1000 ml flask

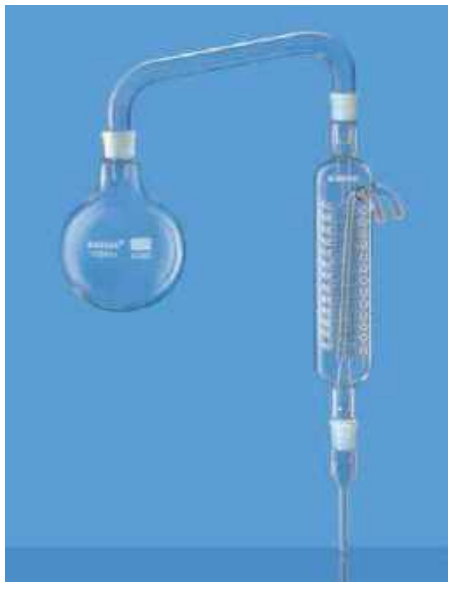
| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3451029 | 1000 | 1 Set | **9510.00** |
| 3451030 | 2000 | 1 Set | **On request** |
| 3451033 | 5000 | 1 Set | **On request** |
| 3451038 | 10000 | 1 Set | **On request** |
| 3451040 | 20000 | 1 Set | **On request** |

**Spare parts available on request**

## 3452 - ALCOHOL DISTILLATION UNIT



- Ideal for distilling alcohol in the laboratory to produce the purest grade
- Thorpe's revenue still for purification of ethyl alcohol popularly used in pharmaceutical industries

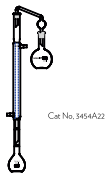


| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3452029 | 1000 | 1 Set | **11820.00** |

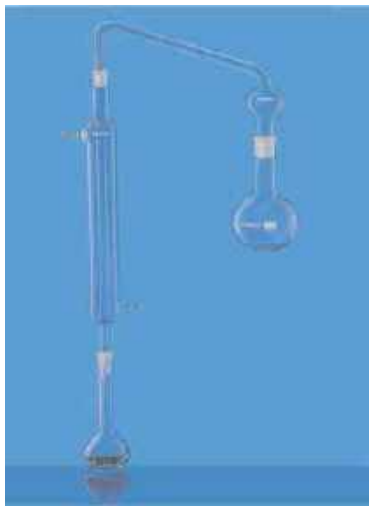
**Spare parts available on request**



## 3454 - R M VALUE APPARATUS




- Ideal for use in dairy industries
- Facilitates the determination of butter fat, and the analysis of oil, fat and waxes



| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3454022 | 300 | 1 Set | **3115.00** |
| 3454A22* | 300 | 1 Set | **4410.00** |

* As per IS 548 Part I Standard

**Spare parts available on request**

## 3602- DEAN STARK DISTILLING APPARATUS

### As per IP



- Made of 3.3 borosilicate glass
- Uniform wall distribution of the Flask makes it suitable for heating
- Consists of a graduated 10 ml Receiver with 0.1 ml intervals



| Product Code | Capacity of Receiver Tube ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3602005 | 5 | 2 Set | **3335.00** |
| 3602006 | 10 | 2 Set | **3565.00** |

**Spare parts available on request**

Receiver Tube 5ml / 10 ml graduated with 19 / 26 outer joint and 24 / 29 inner joint,
Note: 10 ml receiver tube is graduated from 1 ml to 10 ml in 0.1 ml intervals

Round bottom flask 1000 ml with 24 / 29 outer joint

Liebig condenser 200 mm with 19 / 26 joint

ON DEMAND

# Water Distillation Units

Distillation is the most reliable and cost effective method of generating pure water for laboratory uses like reagents, buffer preparations, pH solutions, rinsing, media preparation, in baths, autoclaves etc.

Distillation generates water free of organic, inorganic impurities from feed water without the need to spend large sums on membranes, resins or filters.

Borosil's ON DEMAND Automatic distillation units enpowers the user to set the demand for a set volume of pure water. The unit operates automatically to deliver the set volume and turns itself off.
A system prompted step by step guide assists the user in cleaning the unit for an uninterrupted operation.
Safety features for auto cut-off incase of water supply failure or boiler overheating.





# Water Distillation Unit

General laboratory applications requiring higher ionic purity, samples & buffer preparations

## On Demand Single Distillation Unit (SDU)

Single Stage Distillation units provide automatic working for getting pure water by distillation method capable of removing a wide spectrum of impurities. Raw water is boiled to produce steam which is taken to a condenser where it returns to the liquid state, free of impurity. The impurities remain in the boiler and can be removed periodically with the help of in built descaling or cleaning guide.





### Technical Data & Ordering Information

| Model name | SDU1500 | SDU2500 | SDU4000 |
|---|---|---|---|
| Capacity Distilled Water Output | 1.5 LPH | 2.5 LPH | 4 LPH |
| Minimum cooling water requirement (Ltr/min) | 1 | 1.5 | 2 |
| Heater | Quartz | Quartz | Quartz |
| Boiler | Boro 3.3 | Boro 3.3 | Boro 3.3 |
| Condenser | Boro 3.3 | Boro 3.3 | Boro 3.3 |
| Biological Activity | Pyrogen Free | Pyrogen Free | Pyrogen Free |
| Conductivity S/cm* | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 |
| Power consumption (kw) | 1.5kW | 1.5kW | 1.5kW |
| Voltage (V) | 230V | 230V | 230V |
| Dimensions (L x B x H) in mm | 650 x 255 x 440 | | |
| HSN Code | 84198990 | | |
| Ordering Code | BLFRSDU15000000000 | BLFRSDU25000000000 | BLFRSDU40000000000 |
| **Prices / Piece** | **43,600.00** | **60,800.00** | **67,600.00** |

* Inlet water TDS < 100 ppm

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified. Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20deg C.

# Water Distillation Unit

General laboratory applications requiring higher ionic purity, samples & buffer preparations

## On Demand Double Distillation Unit (DDU)

Double Stage Distillation Units provide automatic working for getting pure water by distillation method capable of removing a wide spectrum of impurities. Raw water is boiled to produce steam which is taken to a condenser where it returns to the liquid state, free of impurity. The impurities remain in the boiler and can be removed periodically with the help of in built descaling or cleaning guide.



## Technical Data & Ordering Information

| Model name | DDU1500 | DDU2500 | DDU4000 |
|---|---|---|---|
| Capacity Distilled Water Output | 1.5 LPH | 2.5 LPH | 4 LPH |
| Minimum cooling water requirement (Ltr/min) | 1 | 1.5 | 2 |
| Heater | Quartz | Quartz | Quartz |
| Boiler | Boro 3.3 | Boro 3.3 | Boro 3.3 |
| Condenser | Boro 3.3 | Boro 3.3 | Boro 3.3 |
| Biological Activity | Pyrogen Free | Pyrogen Free | Pyrogen Free |
| Conductivity S/cm* | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 |
| Power consumption (kw) | 3 kW | 4.4 kW | 7 kW |
| Voltage (V) | 230V | 230V | 230V |
| Dimensions (L x B x H) in mm | 640 x 630 x 520 | | |
| HSN Code | 84198990 | | |
| Ordering Code | BLFRDDU150000000000 | BLFRDDU250000000000 | BLFRDDU400000000000 |
| **Prices / Piece** | **68,900.00** | **1,11,800.00** | **1,21,600.00** |

* Inlet water TDS < 100 ppm

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified. Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20deg C.

# Water Distillation Unit

Manufactured from quartz, providing quick & continuous purified water with smaller foot print in laboratories

## On Demand All Quartz Distillation Units

Borosil On Demand Water Distillation Units Single Stage & Two Stage provide automatic working for getting pure water or general lab water by distillation method capable of removing a wide spectrum of impurities.



Quartz Cabinet DDU



### Technical Data & Ordering Information

| Model name | Quartz DDU | Quartz Cabinet DDU |
|---|---|---|
| Capacity Distilled Water Output | 2.5 LPH | 2.5 LPH |
| Minimum cooling water requirement (Ltr/min) | 2 | 2 |
| Heater | Quartz | |
| Boiler | Quartz | |
| Condenser | Quartz | |
| Biological Activity | Pyrogen Free | |
| Conductivity S/cm* | <1 x 10-6 | |
| Power consumption (kw) | 4.4 kW | |
| Voltage (V) | 230V | |
| Dry Run Protection | Yes | |
| On Demand Output | Yes | |
| Storage Mode | NA | Yes |
| Auto Filling Reservoir | NA | Yes |
| Dispense rate (ml/min) | NA | 900 ml |
| HSN Code | 84194090 | |
| Ordering Code | BLFRQDD25000000000 | BLFRQCD25000000000 |
| **Prices / Piece** | **2,14,200.00** | **On Request** |

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified.Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20deg C. Conductivity values are affected by temperature and absorbed carbon dioxide quantity along with other contaminants from containers stored.

# Water Distillation Unit

Manufactured from quartz, providing quick & continuous purified water with smaller foot print in laboratories




## Mono Quartz Distillation Units (Manual)

These Innovative and compact vertical Distillation Units Made from Pure Silica - Quartz are ideal choice for getting single stage distilled water. It meets the standard of the analytical laboratory where purity of distilled water free from metallic ions and bacteria is important.

## Technical Data & Ordering Information

| Model name | 3363042 | 3363033 | 3363038 | 3364042 | 3364042 |
|---|---|---|---|---|---|
| Capacity Distilled Water Output | 2.5 LPH | 5 LPH | 10LPH | 2.5LPH | 5LPH |
| Minimum cooling water requirement (Ltr/min) | 1 | 2 | 2.5 | 1 | 2 |
| Heater | Quartz | Quartz | Quartz | Quartz | Quartz |
| Boiler | Quartz | Quartz | Quartz | Quartz | Quartz |
| Condenser | Boro 3.3 | Boro 3.3 | Boro 3.3 | Quartz | Quartz |
| Biological Activity | Pyrogen Free | Pyrogen Free | Pyrogen Free | Pyrogen Free | Pyrogen Free |
| Conductivity S/cm* | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 |
| Power consumption (kw) | 2.2 kW | 4.4kW | 8.8 kW | 2.2 kW | 4.4 kW |
| Voltage (V) | 230V | 230V | 440V - 3Phase | 230V | 230V |
| HSN Code | 841940901 | | | | |
| Ordering Code | BT533363042 | BT533363033 | Bt533363038 | BT533364042 | BT533364033 |
| **Model Prices / Piece** | **41,900.00** | **79,400.00** | **18,1400.00** | **72,400.00** | **1,38,800.00** |
| Accessory - DAPS Code | **3366342** | 3366333 | **3366338** | **3366442** | 3366433 |
| **DAPS Prices / Piece** | **14,600.00** | **16,300.00** | **30,200.00** | **14,600.00** | **16,200.00** |

* Inlet water TDS < 100 ppm

DAPS - The Unit provides for Automatic working of distillation unit by switching off the heaters in case water level falls below the heating coil, thereby safeguarding the heaters. The unit resumes distillation when water level is restored by pushing reset button on front panel. The water level sensor probe works on 12 V and hence is very safe to handle. The unit also comes with Buzzer. DAPS is unique for each model.

## Optional Accessories

| Description | Ordering Code | Prices / Piece |
|---|---|---|
| Quartz Boiler 2.5LPH | 363012 | **29,800.00** |
| Quartz Boiler 5LPH | 363032 | **58,600.00** |
| Quartz Boiler 10LPH | 363S02 | **1,02,700.00** |
| Borosil Condenser 2.5LPH | 362022 | **57,00.00** |
| Borosil Condenser 5LPH | 0363S00 | **19,400.00** |
| Borosil Condenser 10LPH | 0363S03 | **39,200.00** |
| Quartz Condenser 2.5LPH | 364023 | **29,600.00** |
| Quartz Condenser 5LPH | 364S01 | **68,000.00** |

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified. Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20° C.

# Water Distillation Unit

All quartz innovative & compact design offers consistent purified water in two distillation stages






## All Quartz Double Distillation Units

Quartz distillation units are manufactured from fused quartz tubes. The exceptionally high chemical purity and very low solubility of this material enables the production of very high performance system. The greatest possible attention has been taken for technical performance, simplicity of use and efficiency.

## Technical Data & Ordering Information

| Model name | 3365041 | 3365042 | 3365033 |
|---|---|---|---|
| Capacity Distilled Water Output | 1.5 LPH | 2.5 LPH | 5 LPH |
| Minimum cooling water requirement (Ltr/min) | 1 | 2 | 2.5 |
| Heater | Quartz | Quartz | Quartz |
| Boiler | Quartz | Quartz | Quartz |
| Condenser | Quartz | Quartz | Quartz |
| Biological Activity | Pyrogen Free | Pyrogen Free | Pyrogen Free |
| Conductivity S/cm* | <1 x 10-6 | <1 x 10-6 | <1 x 10-6 |
| Power consumption (kw) | 3 kW | 4.4kW | 8.8 kW |
| Voltage (V) | 230V | 230V | 440V - 3Phase |
| HSN Code | | 84194090 | |
| Ordering Code | BT533365041 | BT533365042 | BT533365033 |
| **Model Prices / Piece** | **1,18,200.00** | **2,12,800.00** | **3,77,000.00** |
| Accessory - DAPS | 3366541 | 3366542 | 3366533 |
| **DAPS Prices / Piece** | **15,500.00** | **16,200.00** | **30,600.00** |

* Inlet water TDS < 100 ppm

DAPS - The Unit provides for Automatic working of distillation unit by switching off the heaters in case water level falls below the heating coil, thereby safeguarding the heaters. The unit resumes distillation when water level is restored by pushing reset button on front panel. The water level sensor probe works on 12 V and hence is very safe to handle. The unit also comes with Buzzer. DAPS is unique for each model.

## Optional Accessories

| Description | Ordering Code | Prices / Piece |
|---|---|---|
| Quartz Boiler 1.5LPH | 362013 | **37,700.00** |
| Quartz Boiler 2.5LPH | 362014 | **38,400.00** |
| Quartz Boiler 5LPH | 0362S04 | **60,300.00** |
| Quartz Secondary Boiler - Condenser 1.5LPH | 362015 | **96,000.00** |
| Quartz Secondary Boiler - Condenser 2.5LPH | 362016 | **1,33,600.00** |
| Quartz Secondary Boiler - Condenser 5LPH | 0363S05 | **2,58,100.00** |
| Receiving Adapter with Spring | 362063 | **2,100.00** |
| Silicon "O" Ring | 362052 | **700.00** |

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified. Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20° C.



# 3369 - SILICONE TUBING FOR DISTILLATION UNIT & LABORATORY APPLICATION

*Heat Resistance Temperature Range : -40°C To +205°C

Silicone tubing is used for laboratory and industrial applications only. It should not be used for implants , human reproductive system and other medical applications.

336900 - 8mm x 12mm is used for 3361-1.5, 3362-1.5, 3363-2.5 series

3369004 - 10mm x 14mm is used for 3361-4l, 3362-4l, 3364-2.5l, 5l, 3365-1.5l,2.5l,5l, 3363-5l,10l.

| Product Code | Size mm | Quantity per case | HSN Code | Price for 10 Meter ₹ in mtr |
|---|---|---|---|---|
| 3369001 | 4 mm ID x 7 mm OD | 10 | 40091100 | **1800.00** |
| 3369002 | 6 mm ID x 9 mm OD | 10 | 40091100 | **2400.00** |
| 3369003 | 8 mm ID x 12 mm OD | 10 | 40091100 | **4900.00** |
| 3369004 | 10 mm ID x 14 mm OD | 10 | 40091100 | **6000.00** |

LABQUEST BY BOROSIL®

**CONCERNED about**

scaling & contaminations

# Elemental Water Bath

*is right here to provide the* **solution** for your concern





- Temp Range Ambient +5°C to 95°C
- Seamless Deep-drawn stainless steel pan
- Over Heat & Dry Run - Sample Protection
- Capacities 5L,12L, 20L in still & stirred options

Manufactured in BOROSIL® TECHNOLOGIES

SMART | RUGGED | PRACTICAL

For more details please refer page no.249

BOROSIL®

# Mansingh Survismeter

(Singapore Govt. Patent No. 126089




**Features**

- Multi data device
- Vibration free transparent casing
- Easy handling
- Easy sampling
- Easy data process
- No air contamination because the sample is jacketed within respective bulbs
- Boon for physicochemical characterization of volatile, inflammables, carcinogenic liquids
- Eco-friendly
- Homogeneous Temperature control

| Cat. No. | Description | Quantity Per Case | Price ₹ |
|---|---|---|---|
| 3453 | Borosil Mansingh Survismeter For Measurement of surface Tension and Viscocity | 1 Set | **122850.00** |

For centuries, surface tension (γ)and viscosity (η) data have been measured using separate instruments, resulting in wastage of time and materials. Made of Borosil Glass material, Borosil Mansingh Survismeter has been designed to measure surface tension, interfacial tension, wetting coefficient, viscosity and friccohesity data to rationalise frictional and cohesive forces, respectively. Friccohesity focuses on a complete friccochemistry of giants and supramolecular mixtures.

Borosil Mansingh Survismeter is a state-of-the-art apparatus for measurement of surface tension (±0.01 mN/m), interfacial tension

(±0.01 mN/m), viscosity (±$10^{-4}$ mPa.S), wetting coefficient (±0.01 mPa.$cm^2$) friccohesity (±$10^{-6}$s/cm) and related physicochemical parameters generated from intramolecular electrostatical shifts.

Borosil Mansingh Survismeter, being a green science TSAD (Trusted Sustainable Analytical Device), measures the above mentioned PCI (PhysicoChemical Indicators), while simultaneously saving 98% of experimental resources, infrastructure and skilled manpower, for interacting and reacting molecular materials.

A breakthrough in laboratory instruments, Borosil Mansingh Survismeter has wider analytical potential for quality control and formulations in material applied sciences. It has unique essential facilities and cutting edge features based on 'On & Off' or '0 & 1' circuitry functional loops.

Fundamentally, Borosil Mansingh Survismeter measures surface tension, interfacial tension, wetting coefficient, viscosity and friccohesity simultaneously of aqueous, non-aqueous, aprotic dipolar, polar, protic polar and non-polar solvents and mixtures within wider ranges.

- The absolute and relative parameters are measured with 95.5% CV (Confidence Variance).
- It works on the theory of R4M4 [Reduce Reuse Recycle Redesign - Multipurpose Multidimensional Multifaceted Multitracking of materials and methods with highly précised and accurate experimental results, along with 100% inhibition of polluting discharges in experimental determinations.

- The parameters measured with Borosil Mansingh Survismeter are highly significant and reliable for quality analysis of pharmaceuticals, biochemicals, cosmetics, agrochemicals, food and beverages, petroleum and oils, polymer and proteins, sol gels, soaps and detergents, inks, colloids, emulsion technology, pesticides, agrochemicals, insecticides, cutting oils, lubricating, viscous, moderately viscous and highly viscous materials.
- It is especially useful for characterising liquid mixtures of biopolymers, supramolecular chemistry, biotechnological processes and molecular interaction engineering of biomolecular devices, tracking interaction molecular forces, water binding capacities and structural changes during processes.
- It explains the features of Intramolecular Multiple Force Theory (IMMFT) applicable to giant supramolecules, dendrimers and biocomplexes used in several adverse temperature and pressure conditions.
- Borosil Mansingh Survismeter is an asset in case of volatile, moderately and highly volatile liquids and mixtures, volatile organic compounds, flammable liquids and carcinogenic materials as the samples are completely jacketed especially for surface tension, interfacial tension and wetting coefficient determinations.

**Merits of Borosil Mansingh Survismeter :**

- Fast and multipurpose technology
- Eco-friendly and user-friendly
- Reduces fabrication expenditure
- Reduces the need for glass blowing gases, oxygen gas, LPG and manpower
- Reduces emission of heat into the environment
- Ensures safety during transport and maintenance
- Reduces chemicals and solvents greatly
- Contributes to the promotion of green chemistry
- Innovative for youngsters
- No wastage of the sample
- Requires a smaller sample
- Less time required for analysis
- Requires no basic maintenance
- Non-destructive
- Reduces cleaning reagents
- Reduces the number of operational steps in measurement
- Minimises the infrastructure as compared to individual devices

**Industrial Applications**

Industries such as cosmetics, soaps and detergents, petroleum and oils, pesticides, beverages, textiles, paints, polymers and textiles, paper pulp, ink and dyes, medicines and drugs, food and mineral water, and coolants and lubricants will directly benefit from the use of Borosil Mansingh Survismeter.

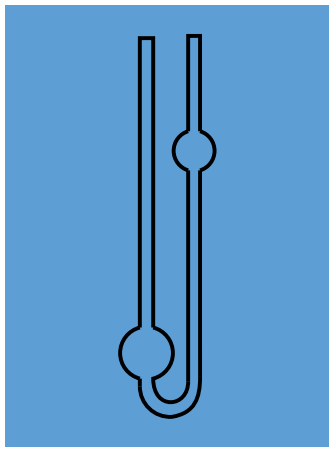


# Viscometer

## 3500-VISCOMETER COLLEGE PATTERN
### Oswal 80 -100 Seconds, Uncertified

| Product Code | Size | Nominal Constant | Viscocity Range (CS) | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3500 | O | 0.001 | 0.3 - 3 | 1 | **2035.00** |

- Supplied without Certificate

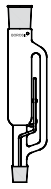


# Extractors

Liquid Solid Extraction involves the elution of a solid sample with pure solvent vapour. The sample is held in the Extractor body either directly or in a thimble. The siphoning type of Soxhlet Extractor finds the widest application in laboratory work. Borosil Soxhlet Extraction Apparatus is available in six sizes. The component parts of the apparatus are provided with interchangeable joints for greater flexibility.



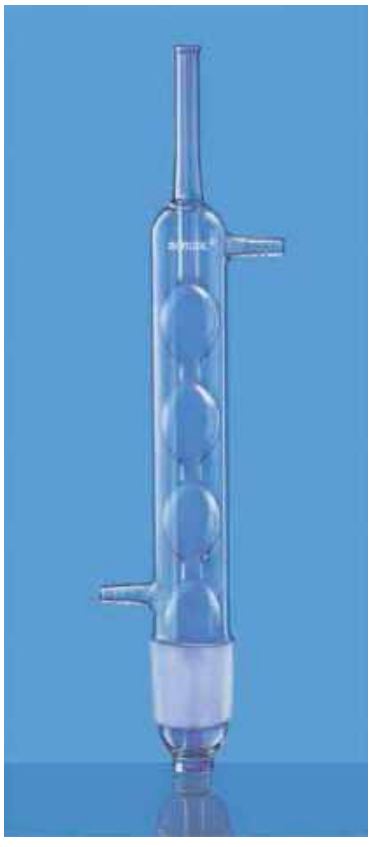


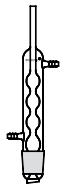


## 3740 - SOXHLET FOR EXTRACTION APPARATUS

- With interchangeable joints
- Complies with IS 10640
- Designed with a bulb in the siphon tube near the top, to aid the siphoning action
- The vapour tube also protects the siphon tube from accidental damage

| Product Code | Capacity ml | Interchangeable Joints | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| | | Socket | Cone | | |
| 3740013 | 60 | 34 / 35 | 24 / 29 | 5 | **1015.00** |
| 3740016 | 100 | 40 / 38 | 24 / 29 | 5 | **1440.00** |
| 3740020 | 200 | 50 / 42 | 24 / 29 | 5 | **1735.00** |





## 3741 - CONDENSER FOR EXTRACTION APPARATUS

- Greater surface area than the Liebig Condenser owing to a series of bulbs, resulting in higher cooling capacity
- Ideal for laboratory scale refluxing

| Product Code | Capacity ml | Interchangeable Joints Cone | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3741013 | Small | 34 / 35 | 5 | **830.00** |
| 3741016 | Medium | 40 / 38 | 5 | **1040.00** |
| 3741020 | Large | 50 / 42 | 5 | **1500.00** |

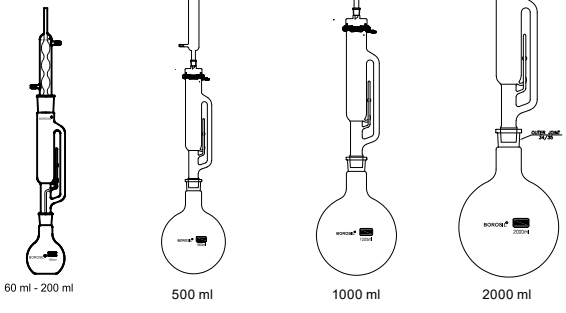
# 3840 - SOXHLET EXTRACTION APPARATUS SET

- With Interchangeable Joints
- Complies with IS 10640
- Used for separation of the extract from the liquid or solid
- Greater surface area than the Liebig Condenser owing to a series of bulbs, resulting in higher cooling capacity
- This method enables effective separation, with relatively small quantities

| Product Code | Capacity ml | Flask Size ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3840013 | 60 | 150 | 1 | **2115.00** |
| 3840016 | 100 | 250 | 1 | **2490.00** |
| 3840020 | 200 | 500 | 1 | **4100.00** |
| 3840024 | 500* | 2000 | 1 | **14855.00** |
| 3840029 | 1000* | 3000 | 1 | **22190.00** |
| 3840030 | 2000* | 5000 | 1 | **37465.00** |

**Spares are available on request**

For flask refer Product Code 4100 / 4380 (2000 ml, 3000 ml, 5000 ml)
* Extractor Supplied are with double surface condenser for higher cooling capacity & flange type soxhlet extractors








LABQUEST BY BOROSIL®

Controlled Heating Mantles

SAFE INTELLIGENT ACCURATE



# COD Digestion Unit

Open Reflux COD Digesters-Ideal solutions for waste water analysis





## Technical Data & Ordering Information

| Model Name | COD082 | COD152 | COD080 | COD150 |
|---|---|---|---|---|
| Reflux Type | Open | | | |
| Positions | 08 Position | 15 Position | 08 Position | 15 Position |
| Capacity | 250 ml X 08 tubes | 250 ml X 12 tubes | 250 ml X 08 tubes | 250 ml X 12 tubes |
| Heating Block | Aluminium | | | |
| Temperature Range | Ambient to 180°C | | | |
| Temperature Accuracy | ±1°C | | ±10°C | |
| Display | Front GRP control panel with Graphic LCD | | LED | |
| Graphical representation of time and temp | Yes | | No | |
| Two point factory calibration | Yes | | | |
| PID autotune | Yes | | | |
| User presets | Yes | | | |
| Process Timer | 0-999 min | | | |
| Temperature Control | Yes with Set value and Present value | | | |
| Time Control | Yes with Set value and Present value | | | |
| Connectivity to Printer | Yes | | No | |
| Connectivity to PC | Yes | | No | |
| Power consumptions | 1400W | 1800 W | 1200W | 1600W |
| Current Consumption | 6 A | 8 A | 6 A | 8 A |
| Unit External Dimensions (WxDxH) | (414 x 414 x 283)mm | | (414 x 414 x 283)mm | |
| HSN Code | 84198990 | | | |
| Ordering Code | BLFACOD08200000000 | BLFACOD15200000000 | BLFACOD08000000000 | BLFACOD01500000000 |
| **Prices / Piece** | **On request** | | | |

| Description | Ordering Code | Pack Size | Prices / Piece |
|---|---|---|---|
| COD air condensers | BLMACND100 CODSAC00 | 5 | **8,540.00** |
| COD digestion vessels | BLMATUB100CODSGT20 | 5 | **11,310.00** |

Note : Digestion vessels and air condensers are provided by default with the unit

# Fat Determination by Soxhlet Extraction

Delivering classical solutions with modernized approach for fat extraction





## Technical Data & Ordering Information

| Model | SOX012 | SOX015 | SOX062 | SOX065 |
|---|---|---|---|---|
| Positions | 1 | | 6 | |
| Flask Capacity (ml) | 250 | 500 | 250 | 500 |
| Extractor capacity (ml) | 100 | 200 | 100 | 200 |
| Temperature Accuracy | ±1°C | | | |
| Temperature Uniformity | ±15°C | | | |
| Plate Temperature | Upto to 320°C | | | |
| Graphical representation of | Yes | | | |
| Display Timer | 1-999 min | | | |
| Dimension (W × D × H) mm | 200 × 300 × 800 | | 1050 × 300 × 800 | |
| Weight (Kgs) | 7 | | 15 | |
| Power (W) | 400 W | | 2400 W | |
| HSN Code | 84198990 | | | |
| Ordering Code | BLFRSOX 01200000000 | BLFRSOX 01500000000 | BLFRSOX 06200000000 | BLFRSOX 06500000000 |
| **Price / Piece** | **On request** | | | |

## Accessories

| Model | Ordering Code | Price / Piece |
|---|---|---|
| SOX012 with Stand ASM | BLAASOX01210000000 | **13,020.00** |
| SOX015 with Stand ASM | BLAASOX01510000000 | **13,440.00** |
| SOX062 without Stand ASM | BLAASOX06200000000 | **60,000.00** |
| SOX062 with Stand ASM | BLAASOX06200000001 | **78,000.00** |
| SOX065 without Stand ASM | BLAASOX06500000000 | **60,000.00** |
| SOX065 with Stand ASM | BLAASOX06500000001 | **78,000.00** |
| SOXHLET 100 ML EXTRACTOR | BLA0SOXEXT10044327 | **5,040.00** |
| SOXHLET 200ML EXTRACTOR | BLA0SOXEXT20048394 | **5,670.00** |
| SOXHLET CONDENSER FOR 100ML EXT V2 ACCS | BLA0CON000SOX100V2 | **3,780.00** |
| SOXHLET CONDENSER FOR 200ML EXT V2 ACCS | BLG0CON000SOX200V2 | **5,040.00** |

# Flasks

All laboratories need Flasks of different types. **BOROSIL** offers a wide range of Flasks for a variety of applications such as boiling, culture, distilling, Erlenmeyer, Filtering, Iodine and Kjeldahl. Choose one to suit your needs.

**BOROSIL®** brand Flasks are designed to deliver the best combination of thermal shock resistance, physical strength and resistance to chemical attack. They are made so as to withstand the demands of the modern laboratory. Flasks with interchangeable joints are particularly suitable for all glass apparatus assemblies.

**BOROSIL** offers the interchangeable joints most commonly specified for a particular capacity. Tube Adaptors Category Nos. 8800 and 8820 can be used to connect the Flask with a particular size joint to any other apparatus having a different size joint.

## Made from 3.3 Low Expansion Borosilicate Glass

USP TYPE I | TYPE I ASTM E438 CLASS A | ISO 3585



# 4060 - FLAT BOTTOM FLASK

## Narrow Mouth





- Complies with IS 1381 (Part - I), ISO 1773
- Uniform wall thickness distribution makes these flasks ideal for heating
- All sizes have a durable matt-finished enamelled area for marking

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4060009 | 25** | 42 x 90 | 20 | 50 | **115.00** |
| 4060012 | 50 | 51 x 90 | 26 | 50 | **135.00** |
| 4060016 | 100 | 64 x 105 | 26 | 80 | **145.00** |
| 4060018 | 150** | 75 x 132 | 28 | 10 | **165.00** |
| 4060021 | 250 | 85 x 140 | 34 | 80 | **175.00** |
| 4060022 | *300** | 88 x 160 | 24 | 20 | **255.00** |
| 4060024 | 500 | 105 x 165 | 34 | 40 | **285.00** |
| 4060029 | 1000 | 131 x 190 | 42 | 20 | **440.00** |
| 4060030 | 2000 | 166 x 230 | 50 | 2 | **840.00** |
| 4060031 | 3000 | 186 x 300 | 50 | 4 | **2385.00** |
| 4060033 | 5000 | 224 x 320 | 58 | 2 | **3500.00** |
| 4060034 | 6000 | 236 x 315 | 65 | 1 | **5060.00** |
| 4060038 | 10000 | 279 x 360 | 65 | 1 | **8170.00** |
| 4060040 | 20000 | 350 x 495 | 78 | 1 | **13600.00** |

* Suitable for use in Polenske Apparatus
** Not covered in standards

# 4100 - FLAT BOTTOM FLASK

## Narrow Mouth, Short Neck With I/C Joint



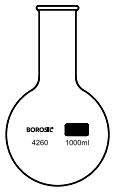


- Uniform wall thickness distribution makes these Flasks ideal for heating
- All sizes have a durable matt-finished enamelled area for marking
- Equipped with interchangeable joint
- The flat base ensures that the Flask can be placed down even without the supporting ring

| Product Code | Capacity ml | Interchangeable Joint | Approx Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4100018 | 150 | 24 / 29 | 115 | 5 | **270.00** |
| 4100021 | 250 | 24 / 29 | 130 | 5 | **290.00** |
| 4100024 | 500 | 24 / 29 | 160 | 5 | **430.00** |
| 4100029 | 1000* | 34 / 35 | 288 | 2 | **545.00** |
| 4100030 | 2000* | 34 / 35 | 321 | 2 | **970.00** |
| 4100031 | 3000* | 34 / 35 | 345 | 2 | **2650.00** |
| 4100033 | 5000* | 34 / 35 | 381 | 2 | **4305.00** |

* These are specific flasks with long neck 34/35 joint used in jewellery manufacturers




# 4260 - ROUND BOTTOM FLASK

## Narrow Mouth

- Complies with IS 1381 (Part I), ISO 1773
- Uniform wall thickness distribution makes these Flasks ideal for heating
- All sizes have a durable matt-finished enamelled area for marking

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4260009 | 25** | 42 x 90 | 22 | 50 | **115.00** |
| 4260012 | 50 | 51 x 95 | 26 | 70 | **130.00** |
| 4260016 | 100 | 64 x 110 | 26 | 50 | **145.00** |
| 4260018 | 150** | 75 x 137 | 28 | 10 | **165.00** |
| 4260021 | 250 | 85 x 143 | 34 | 80 | **165.00** |
| 4260024 | 500 | 105 x 168 | 34 | 40 | **285.00** |
| 4260029 | 1000 | 131 x 200 | 42 | 20 | **385.00** |
| 4260030 | 2000 | 166 x 240 | 51 | 2 | **850.00** |
| 4260031 | 3000 | 187 x 305 | 50 | 2 | **2340.00** |
| 4260033 | 5000 | 224 x 350 | 58 | 2 | **3460.00** |
| 4260034 | 6000 | 236 x 330 | 65 | 1 | **4520.00** |
| 4260038 | 10000 | 279 x 380 | 65 | 1 | **7230.00** |
| 4260040 | 20000 | 350 x 505 | 78 | 1 | **13545.00** |

** Not covered in standards

LABQUEST BY BOROSIL®

Controlled Heating Mantles

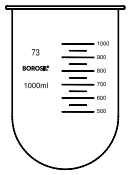


SAFE INTELLIGENT ACCURATE

For more details please refer page no. 250

## 4265 - DISSOLUTION E-FLASK

### Clear, USP, With Certificate



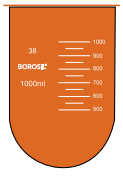


- Designed for disssolution apparatus with side cut, as per USP
- Vessels conforms to all requirements of USP Ch. 711, provided with certificate
- Smooth hemispherical base with no flaws or defects, straight sides and a flat flange
- Graduated in intervals of 50 ml
- Ideal for Dissolution Apparatus for determining the dissolution characteristics of drugs in capsules and tablets

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 4265029 | 1000 | 131 x 173 | 6 | **3280.00** |

## 4267 - DISSOLUTION E-FLASK

### Amber, USP, With Certificate

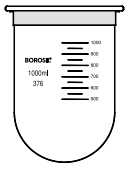




- Designed for disssolution apparatus with side cut, as per USP
- These vessels conform to all the requirements of USP Ch. 711, provided with certificate
- Smooth hemispherical base with no flaws or defects, straight sides and a flat flange
- Graduated in intervals of 50 ml
- Ideal for dissolution apparatus for determining the dissolution characteristics of drugs in capsules and tablets
- Coloured in Amber to protect light-sensitive material
- The Amber colour is applied only to the external surface to prevent contamination with the testing material

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 4267029 | 1000 | 131 x 173 | 6 | **5910.00** |

## 4270 - DISSOLUTION D-FLASKS





- Designed for Dissolution Apparatus without side cut, with silicon ring, as per USP
- Vessels conforms to all requirements of USP Ch. 711, provided with certificate
- Smooth hemispherical base with no flaws or defects, straight sides and a flat flange
- Graduated in intervals of 50ml
- Ideal for determining the dissolution characteristics of drugs in capsules and tablets

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 4270029 | 1000 | 132 x 168 | 6 | **12045.00** |



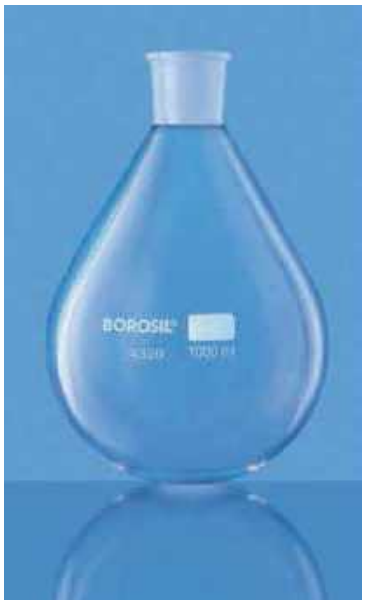


## 4315 - PEAR SHAPE FLASK

### With I/C Joint

- The conical shape makes them ideal for small scale reaction
- Large labelling field

| Product Code | Capacity ml | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 4315005 | 5 | 10 / 19 | 10 | **195.00** |
| 4315105 | 5 | 14 / 23 | 10 | **195.00** |
| 4315006 | 10 | 10 / 19 | 10 | **210.00** |
| 4315106 | 10 | 14 / 23 | 10 | **210.00** |
| 4315009 | 25 | 14 / 23 | 5 | **230.00** |
| 4315012 | 50 | 14 / 23 | 10 | **270.00** |





## 4320 - ROTARY EVAPORATOR FLASK

### With I/C Joint

- Rota Vapour Flasks are used along with Rotary Evaporators
- Ideal for heating sensitive solvent solute combinations
- Facilitate the extraction of key components like odour, oil, drugs, natural extract and fragrance

| Product Code | Capacity ml | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 4320112 | 50 | 24 / 29 | 2 | **1190.00** |
| 4320012 | 50 | 29 / 32 | 2 | **1260.00** |
| 4320116 | 100 | 24 / 29 | 2 | **1890.00** |
| 4320016 | 100 | 29 / 32 | 2 | **2020.00** |
| 4320121 | 250 | 24 / 29 | 2 | **2845.00** |
| 4320021 | 250 | 29 / 32 | 2 | **3000.00** |
| 4320124 | 500 | 24 / 29 | 2 | **3255.00** |
| 4320024 | 500 | 29 / 32 | 2 | **3380.00** |
| 4320129 | 1000 | 24 / 29 | 2 | **5750.00** |
| 4320029 | 1000 | 29 / 32 | 2 | **5885.00** |
| 4320130 | 2000 | 24 / 29 | 2 | **7415.00** |
| 4320030 | 2000 | 29 / 32 | 2 | **7600.00** |





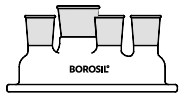
## 4330 - REACTION VESSEL FLASK

### Wide Mouth With Flange

- These flasks have a spherical body with a neck of inner diameter 4 inches (approx 100 mm)
- The top is finely ground to ensure a leak-resistant fit with the cover

| Product Code | Capacity ml | Approx Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 4330029 | 1000 | 170 | 2 | **2200.00** |
| 4330030 | 2000 | 205 | 2 | **2985.00** |
| 4330033 | 5000 | 260 | 2 | **6240.00** |
| 4330038 | 10000 | 335 | 1 | **13180.00** |
| 4330040 | 20000 | 400 | 1 | **22675.00** |

# 4331 - LID FOR REACTION VESSEL FLASK
## (Cat. No. 4330)






- Lids can used with all of the above capacities of REACTION VESSEL FLASK ( CAT. NO. 4330)

| Product Code | Interchangeable Joint Size | | | | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|---|
| | Centre | Parellel | Side 50° | Side 10° | Side 15° | | |
| 4331Z97 | 19 / 26 | 19 / 26 | 24 / 29 | 19 / 26 | - | 2 | **4915.00** |
| 4331Z98 | 19 / 26 | 14 / 23 | 14 / 23 | 14 / 23 | 29 / 32 | 2 | **4915.00** |
| 4331Z99 | 29 / 32 | 14 / 23 | 14 / 23 | 14 / 23 | 29 / 32 | 2 | **4915.00** |

# 4380 - ROUND BOTTOM FLASK
## Narrow Mouth, Short Neck With I/C Joint

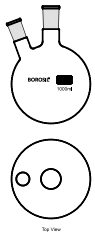





- Uniform wall thickness distribution and the round - bottom shape make them ideal for heating
- Generally used in distillation and extraction processes
- Large labelling field

| Product Code | Capacity ml | Approx Height mm | Interchange-able Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4380A05 | 5 | 60 | 14 / 23 | 10 | **220.00** |
| 4380A06 | 10 | 65 | 14 / 23 | 10 | **220.00** |
| 4380A09 | 25 | 80 | 14 / 23 | 10 | **220.00** |
| 4380B09 | 25 | 77 | 19 / 26 | 10 | **230.00** |
| 4380A12 | 50 | 95 | 14 / 23 | 5 | **230.00** |
| 4380B12 | 50 | 95 | 19 / 26 | 5 | **230.00** |
| 4380C12 | 50 | 95 | 24 / 29 | 5 | **230.00** |
| 4380D12 | 50 | 95 | 29 / 32 | 5 | **230.00** |
| 4380E12 | 50 | 95 | 34 / 35 | 5 | **220.00** |
| 4380A16 | 100 | 120 | 14 / 23 | 20 | **230.00** |
| 4380B16 | 100 | 120 | 19 / 26 | 20 | **230.00** |
| 4380C16 | 100 | 120 | 24 / 29 | 20 | **230.00** |
| 4380D16 | 100 | 120 | 29 / 32 | 20 | **230.00** |
| 4380E16 | 100 | 120 | 34 / 35 | 20 | **220.00** |
| 4380A21 | 250 | 140 | 14 / 23 | 20 | **295.00** |
| 4380B21 | 250 | 140 | 19 / 26 | 20 | **295.00** |
| 4380C21 | 250 | 140 | 24 / 29 | 20 | **295.00** |
| 4380D21 | 250 | 140 | 29 / 32 | 20 | **295.00** |
| 4380E21 | 250 | 140 | 34 / 35 | 20 | **285.00** |
| 4380A24 | 500 | 160 | 14 / 23 | 10 | **420.00** |
| 4380B24 | 500 | 160 | 19 / 26 | 10 | **420.00** |
| 4380C24 | 500 | 160 | 24 / 29 | 10 | **455.00** |
| 4380D24 | 500 | 160 | 29 / 32 | 10 | **435.00** |
| 4380E24 | 500 | 160 | 34 / 35 | 10 | **400.00** |
| 4380A29 | 1000 | 190 | 19 / 26 | 10 | **565.00** |
| 4380B29 | 1000 | 190 | 24 / 29 | 10 | **565.00** |
| 4380C29 | 1000 | 190 | 29 / 32 | 10 | **565.00** |
| 4380D29 | 1000 | 190 | 34 / 35 | 10 | **565.00** |
| 4380E29 | 1000 | 190 | 45 / 40 | 10 | **540.00** |
| 4380F29 | 1000 | 190 | 55 / 44 | 10 | **540.00** |
| 4380A30 | 2000 | 230 | 24 / 29 | 4 | **1095.00** |
| 4380B30 | 2000 | 230 | 29 / 32 | 4 | **1095.00** |
| 4380C30 | 2000 | 230 | 34 / 35 | 4 | **1095.00** |
| 4380D30 | 2000 | 230 | 45 / 40 | 4 | **1095.00** |
| 4380A31 | 3000 | 265 | 24 / 29 | 4 | **2935.00** |
| 4380B31 | 3000 | 265 | 29 / 32 | 4 | **2935.00** |
| 4380C31 | 3000 | 265 | 34 / 35 | 4 | **2935.00** |
| 4380D31 | 3000 | 265 | 45 / 40 | 4 | **2935.00** |
| 4380E31 | 3000 | 265 | 55 / 44 | 4 | **2935.00** |
| 4380A33 | 5000 | 300 | 24 / 29 | 2 | **4485.00** |
| 4380B33 | 5000 | 300 | 29 / 32 | 2 | **4485.00** |
| 4380C33 | 5000 | 300 | 34 / 35 | 2 | **4485.00** |
| 4380D33 | 5000 | 300 | 45 / 40 | 2 | **4485.00** |
| 4380E33 | 5000 | 300 | 55 / 44 | 2 | **4485.00** |
| 4380A38 | 10000 | 385 | 34 / 35 | 1 | **9055.00** |
| 4380B38 | 10000 | 385 | 45 / 40 | 1 | **9055.00** |
| 4380C38 | 10000 | 385 | 55 / 44 | 1 | **9055.00** |
| 4380A40 | 20000 | 435 | 55 / 44 | 1 | **15670.00** |





# 4381 - ROUND BOTTOM FLASK

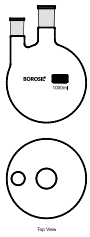
## 2 Necks, Angular

- With Interchangeable Joints
- One neck is centred and vertical. The side neck is inclined at an angle of 20° to the vertical neck
- Uniform wall thickness distribution and the round-bottom shape make them ideal for heating
- The shape facilitates uniform heating
- Accessories, thermometer, column, dropping funnels, boiling capillaries, etc., can be fitted depending upon the application
- Generally used in distillation and extraction processes

| Product Code | Capacity ml | Interchangeable Joint Size | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| | | Centre Neck | Side Neck | | |
| 4381A16 | 100 | 19 / 26 | 14 / 23 | 4 | **335.00** |
| 4381B16 | 100 | 24 / 29 | 14 / 23 | 4 | **335.00** |
| 4381C16 | 100 | 24 / 29 | 19 / 26 | 4 | **335.00** |
| 4381A21 | 250 | 24 / 29 | 14 / 23 | 4 | **445.00** |
| 4381B21 | 250 | 24 / 29 | 19 / 26 | 4 | **445.00** |
| 4381A24 | 500 | 24 / 29 | 14 / 23 | 4 | **650.00** |
| 4381B24 | 500 | 24 / 29 | 19 / 26 | 4 | **650.00** |
| 4381A29 | 1000 | 24 / 29 | 14 / 23 | 2 | **805.00** |
| 4381B29 | 1000 | 24 / 29 | 19 / 26 | 2 | **805.00** |
| 4381A30 | 2000 | 24 / 29 | 14 / 23 | 2 | **1425.00** |
| 4381B30 | 2000 | 24 / 29 | 19 / 26 | 2 | **1425.00** |
| 4381C30 | 2000 | 34 / 35 | 19 / 26 | 2 | **1490.00** |
| 4381A31 | 3000 | 34 / 35 | 19 / 26 | 2 | **3675.00** |
| 4381B31 | 3000 | 34 / 35 | 24 / 29 | 2 | **3675.00** |
| 4381A33 | 5000 | 34 / 35 | 19 / 26 | 1 | **5390.00** |
| 4381B33 | 5000 | 34 / 35 | 24 / 29 | 1 | **5390.00** |
| 4381A38 | 10000 | 34 / 35 | 24 / 29 | 1 | **9695.00** |
| 4381B38 | 10000 | 55 / 44 | 24 / 29 | 1 | **9695.00** |
| 4381A40 | 20000 | 55 / 44 | 24 / 29 | 1 | **16140.00** |

# 4382 - ROUND BOTTOM FLASK

## 2 Necks, Parallel






- With Interchangeable Joints
- Both the necks are vertical. One neck is centred, while the other is the side neck
- Uniform wall thickness distribution and the round-bottom shape make them ideal for heating
- The shape facilitates uniform heating
- Accessories, thermometer, column, dropping funnels, boiling capillaries, etc., can be fitted depending upon the application
- Generally used in distillation and extraction processes

| Product Code | Capacity ml | Interchangeable Joint Size | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| | | Centre Neck | Side Neck | | |
| 4382A16 | 100 | 19 / 26 | 14 / 23 | 4 | **335.00** |
| 4382B16 | 100 | 24 / 29 | 14 / 23 | 4 | **335.00** |
| 4382C16 | 100 | 24 / 29 | 19 / 26 | 4 | **335.00** |
| 4382A21 | 250 | 24 / 29 | 14 / 23 | 4 | **445.00** |
| 4382B21 | 250 | 24 / 29 | 19 / 26 | 4 | **445.00** |
| 4382A24 | 500 | 24 / 29 | 14 / 23 | 4 | **650.00** |
| 4382B24 | 500 | 24 / 29 | 19 / 26 | 4 | **650.00** |
| 4382A29 | 1000 | 24 / 29 | 14 / 23 | 2 | **765.00** |
| 4382B29 | 1000 | 24 / 29 | 19 / 26 | 2 | **805.00** |
| 4382A30 | 2000 | 24 / 29 | 14 / 23 | 2 | **1360.00** |
| 4382B30 | 2000 | 24 / 29 | 19 / 26 | 2 | **1425.00** |
| 4382C30 | 2000 | 34 / 35 | 19 / 26 | 2 | **1425.00** |
| 4382A31 | 3000 | 34 / 35 | 19 / 26 | 2 | **3675.00** |
| 4382B31 | 3000 | 34 / 35 | 24 / 29 | 2 | **3675.00** |
| 4382A33 | 5000 | 34 / 35 | 19 / 26 | 1 | **5390.00** |
| 4382B33 | 5000 | 34 / 35 | 24 / 29 | 1 | **5390.00** |
| 4382A38 | 10000 | 34 / 35 | 24 / 29 | 1 | **9695.00** |
| 4382B38 | 10000 | 55 / 44 | 24 / 29 | 1 | **9695.00** |
| 4382A40 | 20000 | 55 / 44 | 24 / 29 | 1 | **16145.00** |






# 4383 - ROUND BOTTOM FLASK

## 3 Necks, Angular

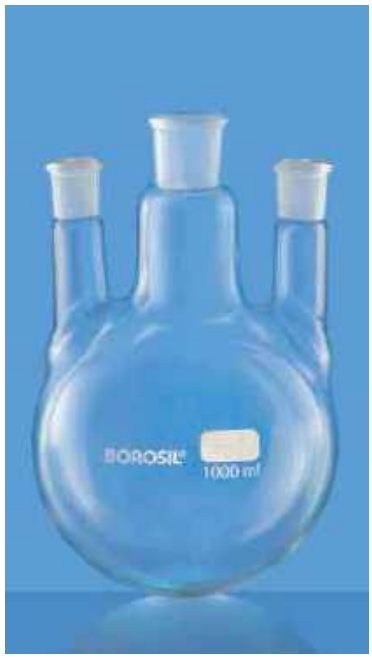
- With Interchangeable Joints
- The centred neck is vertical. The two side necks are 180° apart and are inclined at an angle of 20° to the vertical neck
- Uniform wall thickness distribution and round-bottom shape make them ideal for heating
- The shape facilitates uniform heating
- Accessories, thermometer, column, dropping funnels, boiling capillaries, etc. can be fitted depending upon the application
- Generally used in distillation and extraction processes

| Product Code | Capacity ml | Interchangeable Joint Size | | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| | | Centre Neck | Side Neck | Side Neck | | |
| 4383A16 | 100 | 19 / 26 | 14 / 23 | 14 / 23 | 4 | **470.00** |
| 4383B16 | 100 | 14 / 23 | 14 / 23 | 14 / 23 | 4 | **470.00** |
| 4383C16 | 100 | 24 / 29 | 14 / 23 | 14 / 23 | 4 | **470.00** |
| 4383D16 | 100 | 24 / 29 | 19 / 26 | 19 / 26 | 4 | **470.00** |
| 4383A21 | 250 | 19 / 26 | 14 / 23 | 14 / 23 | 4 | **595.00** |
| 4383B21 | 250 | 19 / 26 | 19 / 26 | 19 / 26 | 4 | **595.00** |
| 4383C21 | 250 | 24 / 29 | 14 / 23 | 14 / 23 | 4 | **595.00** |
| 4383D21 | 250 | 24 / 29 | 19 / 26 | 19 / 26 | 4 | **595.00** |
| 4383A24 | 500 | 19 / 26 | 14 / 23 | 14 / 23 | 4 | **890.00** |
| 4383B24 | 500 | 19 / 26 | 19 / 26 | 19 /26 | 4 | **890.00** |
| 4383C24 | 500 | 24 / 29 | 14 / 23 | 14 / 23 | 4 | **930.00** |
| 4383D24 | 500 | 24 / 29 | 19 / 26 | 19 /26 | 4 | **930.00** |
| 4383A29 | 1000 | 24 / 29 | 14 / 23 | 14 / 23 | 2 | **1100.00** |
| 4383B29 | 1000 | 24 / 29 | 19 / 26 | 19 / 26 | 2 | **1100.00** |
| 4383C29 | 1000 | 34 / 35 | 24 / 29 | 24 / 29 | 2 | **1100.00** |
| 4383D29 | 1000 | 34 / 35 | 19 / 26 | 19 / 26 | 2 | **1050.00** |
| 4383A30 | 2000 | 24 / 29 | 14 / 23 | 14 / 23 | 2 | **2080.00** |
| 4383B30 | 2000 | 24 / 29 | 19 / 26 | 19 / 26 | 2 | **1990.00** |
| 4383C30 | 2000 | 34 / 35 | 19 / 26 | 19 / 26 | 2 | **2080.00** |
| 4383D30 | 2000 | 34 / 35 | 24 / 29 | 24 / 29 | 2 | **2025.00** |
| 4383A31 | 3000 | 34 / 35 | 19 / 26 | 19 / 26 | 2 | **4735.00** |
| 4383B31 | 3000 | 34 / 35 | 24 / 29 | 24 / 29 | 2 | **4735.00** |
| 4383A33 | 5000 | 34 / 35 | 19 / 26 | 19 / 26 | 1 | **6695.00** |
| 4383B33 | 5000 | 34 / 35 | 24 / 29 | 24 / 29 | 1 | **6695.00** |
| 4383C33 | 5000 | 45 / 40 | 24 / 29 | 24 / 29 | 1 | **6695.00** |
| 4383A38 | 10000 | 34 / 35 | 19 / 26 | 19 / 26 | 1 | **12925.00** |
| 4383B38 | 10000 | 34 / 35 | 24 / 29 | 24 / 29 | 1 | **12925.00** |
| 4383C38 | 10000 | 45 / 40 | 24 / 29 | 24 / 29 | 1 | **12925.00** |
| 4383A40 | 20000 | 55 / 44 | 24 / 29 | 24 / 29 | 1 | **19385.00** |

# 4384 - ROUND BOTTOM FLASK

## 3 Necks, Parallel






- With Interchangeable Joints
- All the three necks are vertical. The two side necks are 180° apart
- Uniform wall thickness distribution and round-bottom shape make them ideal for heating
- The shape facilitates uniform heating
- Accessories, thermometer, column, dropping funnels, boiling capillaries, etc. can be fitted depending upon the application
- Generally used in distillation and extraction processes

| Product Code | Capacity ml | Interchangeable Joint Size | | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| | | Centre Neck | Side Neck | Side Neck | | |
| 4384A16 | 100 | 19 / 26 | 14 / 23 | 14 / 23 | 4 | **470.00** |
| 4384B16 | 100 | 14 / 23 | 14 / 23 | 14 / 23 | 4 | **470.00** |
| 4384C16 | 100 | 24 / 29 | 14 / 23 | 14 / 23 | 4 | **470.00** |
| 4384D16 | 100 | 24 / 29 | 19 / 26 | 19 / 26 | 4 | **470.00** |
| 4384A21 | 250 | 19 / 26 | 14 / 23 | 14 / 23 | 4 | **595.00** |
| 4384B21 | 250 | 19 / 26 | 19 / 26 | 19 / 26 | 4 | **595.00** |
| 4384C21 | 250 | 24 / 29 | 14 / 23 | 14 / 23 | 4 | **595.00** |
| 4384D21 | 250 | 24 / 29 | 19 / 26 | 19 / 26 | 4 | **595.00** |
| 4384A24 | 500 | 19 / 26 | 14 / 23 | 14 / 23 | 4 | **905.00** |
| 4384B24 | 500 | 19 / 26 | 19 / 26 | 1 9 /26 | 4 | **850.00** |
| 4384C24 | 500 | 24 / 29 | 14 / 23 | 14 / 23 | 4 | **930.00** |
| 4384D24 | 500 | 24 / 29 | 19 / 26 | 19 /26 | 4 | **930.00** |
| 4384A29 | 1000 | 24 / 29 | 14 / 23 | 14 / 23 | 2 | **1150.00** |
| 4384B29 | 1000 | 24 / 29 | 19 / 29 | 19 / 26 | 2 | **1100.00** |
| 4384C29 | 1000 | 34 / 35 | 24 / 29 | 24 / 29 | 2 | **1100.00** |
| 4384D29 | 1000 | 34 / 35 | 19 / 26 | 19 / 26 | 2 | **1050.00** |
| 4384A30 | 2000 | 24 / 29 | 14 / 23 | 14 / 23 | 2 | **1990.00** |
| 4384B30 | 2000 | 24 / 29 | 19 / 26 | 19 / 26 | 2 | **1990.00** |
| 4384C30 | 2000 | 34 / 35 | 19 / 26 | 19 / 26 | 2 | **1990.00** |
| 4384D30 | 2000 | 34 / 35 | 24 / 29 | 24 / 29 | 2 | **2025.00** |
| 4384A31 | 3000 | 34 / 35 | 19 / 26 | 19 / 26 | 2 | **4735.00** |
| 4384B31 | 3000 | 34 / 35 | 24 / 29 | 24 / 29 | 2 | **4735.00** |
| 4384A33 | 5000 | 34 / 35 | 19 / 26 | 19 / 26 | 1 | **6695.00** |
| 4384B33 | 5000 | 34 / 35 | 24 / 29 | 24 / 29 | 1 | **6695.00** |
| 4384C33 | 5000 | 45 / 40 | 24 / 29 | 24 / 29 | 1 | **6695.00** |
| 4384A38 | 10000 | 34 / 35 | 19 / 26 | 19 / 26 | 1 | **12925.00** |
| 4384B38 | 10000 | 34 / 35 | 24 / 29 | 24 / 29 | 1 | **12925.00** |
| 4384C38 | 10000 | 45 / 40 | 24 / 29 | 24 / 29 | 1 | **12925.00** |
| 4384A40 | 20000 | 55 / 44 | 24 / 29 | 24 / 29 | 1 | **19385.00** |





# 4385 - ROUND BOTTOM FLASK

## 4 Necks, Angular

- With Interchangeable Joints
- The centred neck is vertical. All the three side necks are inclined at an angle of 20° to the vertical neck
- The two side necks are 180° apart, and a third side neck is at 90° from the other two necks
- Uniform wall thickness distribution and round-bottom shape make them ideal for heating
- The shape facilitates uniform heating
- Accessories, thermometer, column, dropping funnels, boiling capillaries, etc. can be fitted depending upon the application
- Generally used in distillation and extraction processes

| Product Code | Capacity ml | Interchangeable Joint Size | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| | | Centre Neck | Side Neck | | |
| 4385A12 | 50 | 24 / 29 | 24 / 29 | 4 | **660.00** |
| 4385A16 | 100 | 24 / 29 | 14 / 23 | 4 | **720.00** |
| 4385B16 | 100 | 24 / 29 | 19 / 26 | 4 | **755.00** |
| 4385A21 | 250 | 24 / 29 | 14 / 23 | 4 | **915.00** |
| 4385B21 | 250 | 24 / 29 | 19 / 26 | 4 | **915.00** |
| 4385A24 | 500 | 24 / 29 | 14 / 23 | 4 | **1300.00** |
| 4385B24 | 500 | 24 / 29 | 19 / 26 | 4 | **1300.00** |
| 4385C24 | 500 | 24 / 29 | 24 / 29 | 4 | **1300.00** |
| 4385D24 | 500 | 34 / 35 | 24 / 29 | 4 | **1355.00** |
| 4385A29 | 1000 | 24 / 29 | 14 / 23 | 2 | **1540.00** |
| 4385B29 | 1000 | 24 / 29 | 19 / 26 | 2 | **1610.00** |
| 4385C29 | 1000 | 24 / 29 | 24 / 29 | 2 | **1685.00** |
| 4385D29 | 1000 | 34 / 35 | 24 / 29 | 2 | **1685.00** |
| 4385A30 | 2000 | 24 / 29 | 14 / 23 | 2 | **2675.00** |
| 4385B30 | 2000 | 24 / 29 | 19 / 26 | 2 | **2675.00** |
| 4385C30 | 2000 | 34 / 35 | 19 / 26 | 2 | **2675.00** |
| 4385D30 | 2000 | 34 / 35 | 24 / 29 | 2 | **2675.00** |
| 4385A31 | 3000 | 34 / 35 | 19 / 26 | 2 | **5950.00** |
| 4385B31 | 3000 | 34 / 35 | 24 / 29 | 2 | **5950.00** |
| 4385A33 | 5000 | 34 / 35 | 19 / 26 | 1 | **8155.00** |
| 4385B33 | 5000 | 34 / 35 | 24 / 29 | 1 | **8155.00** |
| 4385A38 | 10000 | 55 / 44 | 24 / 29 | 1 | **14595.00** |
| 4385B38 | 10000 | 34 / 35 | 24 / 29 | 1 | **14595.00** |
| 4385A40 | 20000 | 55 / 44 | 24 / 29 | 1 | **21405.00** |

# 4386 - ROUND BOTTOM FLASK

## 4 Necks, Parallel



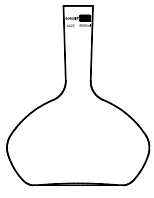
- With Interchangeable Joints
- All the four necks are vertical. The two side necks are 180° apart and the third neck is at 90° from the other two necks
- Four Necks, Centre Neck and Three Parallel Side Neck, with Interchangeable Joints
- Uniform wall thickness distribution and the round-bottom shape make them ideal for heating
- The shape facilities uniform heating
- Accessories, thermometer, column, dropping funnels, boiling capillaries, etc. can be fitted depending upon the application
- Generally used in distillation and extraction processes




| Product Code | Capacity ml | Interchangeable Joint Size | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| | | Centre Neck | Side Neck | | |
| 4386A12 | 50 | 24 / 29 | 24 / 29 | 4 | **660.00** |
| 4386A16 | 100 | 24 / 29 | 14 / 23 | 4 | **720.00** |
| 4386B16 | 100 | 24 / 29 | 19 / 26 | 4 | **755.00** |
| 4386A21 | 250 | 24 / 29 | 14 / 23 | 4 | **915.00** |
| 4386B21 | 250 | 24 / 29 | 19 / 26 | 4 | **915.00** |
| 4386A24 | 500 | 24 / 29 | 14 / 23 | 4 | **1240.00** |
| 4386B24 | 500 | 24 / 29 | 19 / 26 | 4 | **1240.00** |
| 4386C24 | 500 | 24 / 29 | 24 / 29 | 4 | **1300.00** |
| 4386D24 | 500 | 34 / 35 | 24 / 29 | 4 | **1355.00** |
| 4386A29 | 1000 | 24 / 29 | 14 / 23 | 2 | **1610.00** |
| 4386B29 | 1000 | 24 / 29 | 19 / 26 | 2 | **1685.00** |
| 4386C29 | 1000 | 24 / 29 | 24 / 29 | 2 | **1685.00** |
| 4386D29 | 1000 | 34 / 35 | 24 / 29 | 2 | **1685.00** |
| 4386A30 | 2000 | 24 / 29 | 14 / 23 | 2 | **2550.00** |
| 4386B30 | 2000 | 24 / 29 | 19 / 26 | 2 | **2675.00** |
| 4386C30 | 2000 | 34 / 35 | 19 / 26 | 2 | **2550.00** |
| 4386D30 | 2000 | 34 / 35 | 24 / 29 | 2 | **2675.00** |
| 4386A31 | 3000 | 34 / 35 | 19 / 26 | 2 | **5950.00** |
| 4386B31 | 3000 | 34 / 35 | 24 / 29 | 2 | **5950.00** |
| 4386A33 | 5000 | 34 / 35 | 19 / 26 | 1 | **8155.00** |
| 4386B33 | 5000 | 34 / 35 | 24 / 29 | 1 | **8155.00** |
| 4386A38 | 10000 | 55 / 44 | 24 / 29 | 1 | **14595.00** |
| 4386B38 | 10000 | 34 / 35 | 24 / 29 | 1 | **14595.00** |
| 4386A40 | 20000 | 55 / 44 | 24 / 29 | 1 | **21390.00** |

# 4422 - CULTURE FLASK

## Haffikine



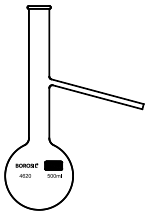
- Complies with IS 7183
- The large, flat bottom surface ensures uniform culture growth
- Typically used for the preparation of culture in nutrient media

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 4422031 | 3000* | 245 x 280 | 2 | **3835.00** |
| 4422032 | 4000 | 246 x 310 | 2 | **4230.00** |

*3000 ml not covered in standards







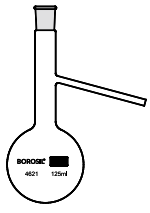
## 4620 - DISTILLING FLASK
### With Side Arm

- Complies with IS 2620
- Uniform wall thickness distribution makes these Flasks ideal for heating
- Suitable for distillation process

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4620016 | 100 | 65 x 210 | 22 | 4 | **360.00** |
| 4620017 | *125 | 69 x 215 | 22 | 4 | **355.00** |
| 4620021 | 250 | 87 x 230 | 25 | 4 | **590.00** |
| 4620024 | 500 | 110 x 250 | 28 | 4 | **695.00** |
| 4620029 | 1000 | 138 x 305 | 34 | 4 | **840.00** |

* Specification as per the Institute of Petroleum Standard No. IP 123/64



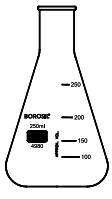


## 4621 - DISTILLING FLASK
### With I/C Joint

- Distilling with I/C joint 19/26 as per ASTM D86

| Product Code | Capacity ml | Approx O.D.xHeight mm | Approx Neck I. D. | Inter-change-able Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 4621017 | 125 | 69 x 218 | 19 | 19 / 26 | 20 | **560.00** |



## 4980 - ERLENMEYER (CONICAL) FLASK
### Narrow Mouth, With Rim

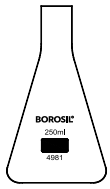
- Complies with IS 1381(Part I), DIN / ISO 1773
- Uniform wall thickness distribution makes these flasks ideal for heating
- The conical form makes them suitable for mixing liquids
- The easy-to-read scale and large labelling field facilitate easy marking
- Graduated from 25 ml to 5000 ml

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4980006 | 10* | 37 x 60 | 15 | 30 | **105.00** |
| 4980009 | 25 | 42 x 75 | 22 | 40 | **110.00** |
| 4980012 | 50 | 51 x 90 | 22 | 100 | **110.00** |
| 4980016 | 100 | 64 x 105 | 22 | 100 | **115.00** |
| 4980017 | 125* | 66 x 110 | 28 | 100 | **135.00** |
| 4980018 | 150* | 72 x 124 | 28 | 100 | **140.00** |
| 4980021 | 250 | 85 x 145 | 34 | 40 | **175.00** |
| 4980024 | 500 | 105 x 180 | 34 | 40 | **245.00** |
| 4980029 | 1000 | 131 x 220 | 42 | 20 | **420.00** |
| 4980030 | 2000 | 166 x 280 | 52 | 20 | **730.00** |
| 4980031 | 3000 | 187 x 310 | 50 | 4 | **2090.00** |
| 4980033 | 5000 | 220 x 365 | 50 | 2 | **3230.00** |

25 ml to 5000 ml Graduated
* Not covered in standards

## 4981 - ERLENMEYER (CONICAL) FLASK

### Long Neck Without Rim





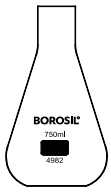


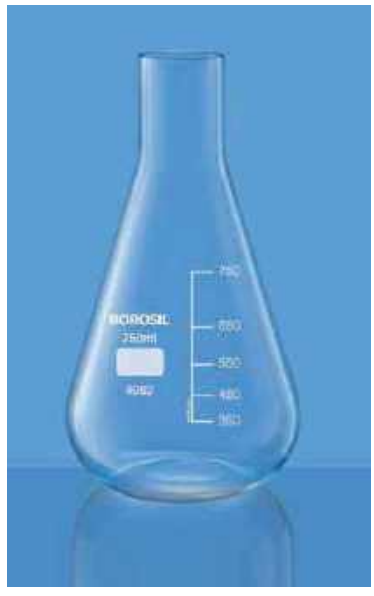
- Complies with IS 1381(Part I), DIN / ISO 1773
- Uniform wall thickness distribution makes these flasks ideal for heating
- Long neck designed for cotton plugs and metal caps
- The conical form makes them suitable for mixing liquids
- The easy-to-read scale and large labelling field facilitate easy marking
- Ideal for microbial culture work

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4981021 | 250 | 78 x 154 | 27 | 10 | **235.00** |

## 4982 - ERLENMEYER (CONICAL) FLASK

### Without Rim



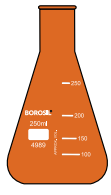

- Complies with IS 1381(Part I), DIN / ISO 1773
- Uniform wall thickness distribution makes these flasks ideal for heating
- The conical form makes them suitable for mixing liquids
- Designed without a rim for use in the shaker machine
- The easy-to-read scale and large labelling field facilitate easy marking
- Graduated from 25 ml to 5000 ml

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4982027 | 750 | 114 x 210 | 42 | 10 | **530.00** |

Suitable for culture work, designed for use in shaker machine

## 4989 - ERLENMEYER (CONICAL) FLASK

### Narrow Mouth, With Rim, Amber





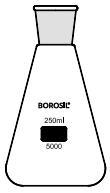


- Complies with IS 1381 (Part I), DIN / ISO 1773
- Uniform wall thickness distribution makes these flasks ideal for heating
- The conical form makes them suitable for mixing liquids
- The easy-to-read scale and large labelling field facilitate easy marking
- Graduated from 25 ml to 5000 ml
- Coloured in Amber to protect light-sensitive material
- The Amber colour is applied only to the external surface to prevent contamination with the testing material

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 4989016 | 100 | 64 x 105 | 22 | 10 | **215.00** |
| 4989018 | 150* | 72 x 124 | 28 | 10 | **255.00** |
| 4989021 | 250 | 85 x 145 | 34 | 10 | **340.00** |
| 4989024 | 500 | 105 x 180 | 34 | 10 | **545.00** |
| 4989029 | 1000 | 131 x 220 | 42 | 10 | **920.00** |

* Not covered in standards




## 5000 - ERLENMEYER (CONICAL) FLASK

### Narrow Mouth, With I/C Joint

- Complies with IS 1381(Part II), DIN / ISO 4797
- Equipped with interchangeable joints
- Uniform wall thickness distribution makes these flasks ideal for heating
- The conical form makes them suitable for mixing of liquids
- The easy-to-read scale and large labelling field facilitate easy marking

| Product Code | Capacity ml | Interchangeable Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5000009 | 25 | 14 / 23 | 10 | **210.00** |
| 5000012 | 50 | 19 / 26 | 10 | **220.00** |
| 5000016 | 100 | 24 / 29 | 10 | **270.00** |
| 5000021 | 250 | 24 / 29 | 10 | **285.00** |
| 5000024 | 500 | 24 / 29 | 5 | **410.00** |





## 5015 - TILT MEASURE

- Ideal for dispensing fixed volume of liquid
- Easy to use
  - Tilt the unit backward to fill
  - Tilt the unit forward to dispense
- Accuracy + 5% can be achieved

| Product Code | Capacity ml | Flask Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5015005 | 5 | 100 | 5 | **990.00** |
| 5015006 | 10 | 250 | 5 | **1035.00** |
| 5015008 | 20 | 250 | 10 | **1160.00** |
| 5015009 | 25 | 250 | 10 | **1240.00** |
| 5015012 | 50 | 250 | 10 | **1470.00** |







## 5019 - ERLENMEYER (CONICAL) FLASK

### Narrow Mouth, With I/C Joint & Glass Stopper, Amber

- Complies with IS 1381 (Part II), DIN / ISO 4797
- Equipped with interchangeable joints
- These flasks can be closed with a glass stopper
- Uniform wall thickness distribution makes these flasks ideal for heating
- While heating stopper should be removed
- The conical form makes them suitable for mixing liquids
- Coloured in Amber to protect light-sensitive material
- The Amber colour is applied only to the external surface to prevent contamination with the testing material

| Product Code | Capacity ml | Interchangeable Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5019009 | 25 | 14 / 23 | 10 | **415.00** |
| 5019012 | 50 | 19 / 26 | 10 | **430.00** |
| 5019016 | 100 | 24 / 29 | 20 | **530.00** |
| 5019021 | 250 | 24 / 29 | 20 | **655.00** |
| 5019024 | 500 | 24 / 29 | 10 | **1065.00** |

## 5020 - ERLENMEYER (CONICAL) FLASK

### Narrow Mouth, With I/C Joint & Glass Stopper



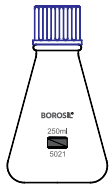


- Equipped with interchangeable joints
- These flasks can be closed with a glass stopper
- The conical form makes them suitable for mixing of liquid
- While heating stopper should be removed

| Product Code | Capacity ml | Interchangeable Joint | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5020009 | 25 | 14 / 23 | 10 | **255.00** |
| 5020012 | 50 | 19 / 26 | 10 | **310.00** |
| 5020016 | 100 | 24 / 29 | 20 | **375.00** |
| 5020021 | 250 | 24 / 29 | 20 | **395.00** |
| 5020024 | 500 | 24 / 29 | 10 | **590.00** |
| 5020029 | 1000 | 29 / 32 | 10 | **865.00** |
| 5020030 | 2000 | 29 / 32 | 10 | **1125.00** |

## 5021 - ERLENMEYER (CONICAL) FLASK

### With Screw Cap





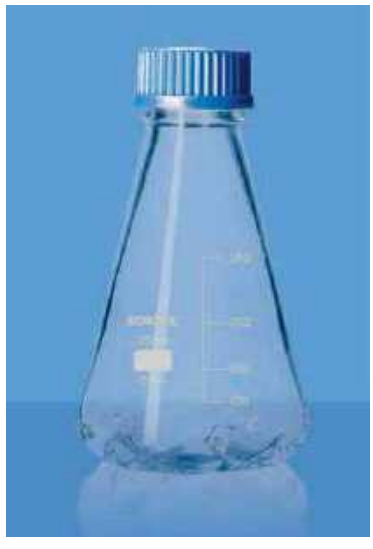
- Supplied with PP screw cap autoclavable at 121°C
- The conical form makes them suitable for mixing of liquids

| Product Code | Capacity ml | Neck Specification | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5021016 | 100 | GL 25 | 20 | **325.00** |
| 5021018 | 150 | GL 25 | 20 | **375.00** |
| 5021021 | 250 | GL 45 | 20 | **430.00** |
| 5021024 | 500 | GL 45 | 10 | **555.00** |
| 5021029 | 1000 | GL 45 | 10 | **1025.00** |
| 5021030 | 2000 | GL 45 | 10 | **1460.00** |
| 5021033 | 5000 | GL 45 | 2 | **6870.00** |

## 5025 - ERLENMEYER (CONICAL) FLASK

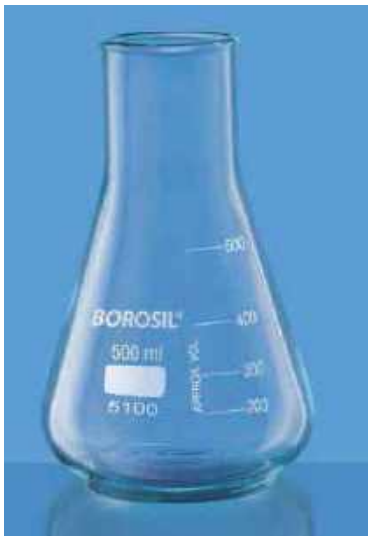
### Baffled Bottom, With Screw Cap

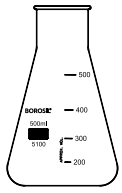




- Supplied with screw cap made of polypropylene, autoclavable at 121°C
- Exhibits four baffled indents to provide consistent agitation and optimum aeration
- Optimum clarity for making critical observations
- Chemically inert and resistance to sodium leaching does not cause any pH changes in the liquid it is holdin
- Ideal culture vessel for microbial culture preparations, enzymatic dissociation of tissues, culturing of suspension cells for biopharma applications, plant cell culturing

| Product Code | Capacity ml | Neck Specification | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5025021 | 250 | GL 45 | 10 | **2405.00** |
| 5025024 | 500 | GL 45 | 10 | **2935.00** |
| 5025029 | 1000 | GL 45 | 10 | **4130.00** |
| 5025030 | 2000 | GL 45 | 10 | **5070.00** |



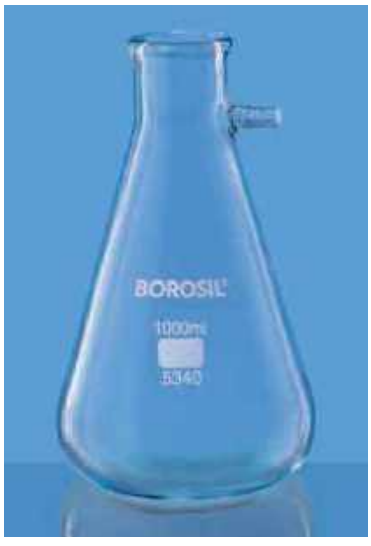



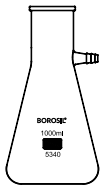
## 5100 - ERLENMEYER (CONICAL) FLASK

### Wide Mouth

- Complies with IS 1381 /ISO 1773
- Uniform wall thickness distribution makes these flasks ideal for heating
- The conical form makes them suitable for mixing of liquids
- The easy-to-read scale and large labelling field facilitate easy marking
- Designed with a wide neck that makes cleaning and filling easier

| Product Code | Capacity ml | Approx O.D. x Height mm | Approx Neck O.D. mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5100016 | 100 | 64 x 105 | 34 | 20 | **135.00** |
| 5100021 | 250 | 85 x 142 | 50 | 30 | **185.00** |
| 5100024 | 500 | 105 x 175 | 50 | 20 | **285.00** |
| 5100029 | 1000 | 130 x 220 | 56 | 10 | **500.00** |



## 5340 - FILTER FLASK

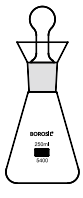
### With Glass Tubulation

- These flasks are blown in special moulds
- The shape is designed to impart maximum mechanical strength
- The neck finish is designed for strength and to ensure good stopper fit
- Ideal for use with Bucher Funnel Category No. 36060 and Gooch Crucible
- No. 32060 with Sintered Discs that have different porosities

| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5340012 | 50 | 52 x 86 | 30 | **275.00** |
| 5340016 | 100 | 70 x 105 | 20 | **410.00** |
| 5340021 | 250 | 85 x 155 | 10 | **595.00** |
| 5340024 | 500 | 105 x 185 | 20 | **715.00** |
| 5340029 | 1000 | 135 x 235 | 10 | **1085.00** |
| 5340030 | 2000 | 165 x 270 | 5 | **2200.00** |
| 5340033 | 5000 | 240 x 450 | 2 | **7850.00** |
| 5340038 | 10000* | 236 x 420 | 1 | **13650.00** |
| 5340040 | 20000* | 295 x 538 | 1 | **23870.00** |

* These flasks are bottle shaped



## 5400 - IODINE FLASK

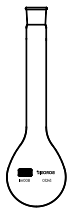
### With I/C Glass Stopper

- These flasks are made especially for the determination of Iodine value according to the methods of ASTM D-29
- Supplied Interchangeable Stopper
- Large labelling field for easy marking
- The handle of the stopper projects above the liquid seal, facilitating its removal

| Product Code | Capacity ml | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5400016 | 100 | 24 / 29 | 10 | **310.00** |
| 5400021 | 250 | 24 / 29 | 10 | **390.00** |
| 5400024 | 500 | 24 / 29 | 10 | **490.00** |

## 5420 - KJELDAHL FLASK

- Designed with a tooled neck for greater strength and a better stopper fit
- These flasks are specially designed for nitrogen/protein determination as per the Kjeldahl method

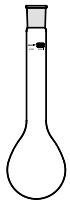




| Product Code | Capacity ml | Approx O.D. x Height mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5420006 | 10 | 30 x 180 | 10 | **135.00** |
| 5420010 | 30 | 40 x 180 | 10 | **190.00** |
| 5420016 | 100 | 61 x 210 | 10 | **250.00** |
| 5420022 | 300 | 82 x 298 | 10 | **410.00** |
| 5420024 | 500 | 103 x 325 | 10 | **790.00** |
| 5420028 | 800 | 116 x 375 | 10 | **960.00** |

## 5430 - KJELDAHL FLASK
### With I/C Joint

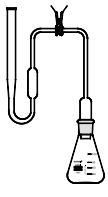
- Designed with a tooled neck for greater strength and better stopper fit
- These flasks are specially designed for nitrogen/protein determination as per Kjedahl method.
- The flask with 500ml capacity is a part of Ammonia Distilling Apparatus Category No. 3340





| Product Code | Capacity ml | Approx O.D. x Height mm | Interchange-able Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5430024 | 500 | 103 x 325 | 24 / 29 | 10 | **990.00** |
| 5430028 | 800 | 116 x 375 | 24 / 29 | 10 | **1095.00** |

## 5200 - ARSENIC DETERMINATION APPARATUS AS PER USP

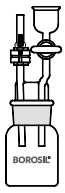




| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5200001 | 1 | **4090.00** |

Spare parts available on request



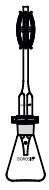


## 5201 - ARSENIC DETERMINATION APPARATUS GUTZEIT

| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5201001 | 1 | 4090.00 |

Spare parts available on request





## 5202 - ARSENIC DETERMINATION APPARATUS AS PER BP

| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5202001 | 1 | 3000.00 |

Spare parts available on request



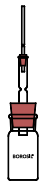


## 5203 - ARSENIC DETERMINATION APPARATUS AS PER IP

| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5203001 | 1 | 2505.00 |

Spare parts available on request

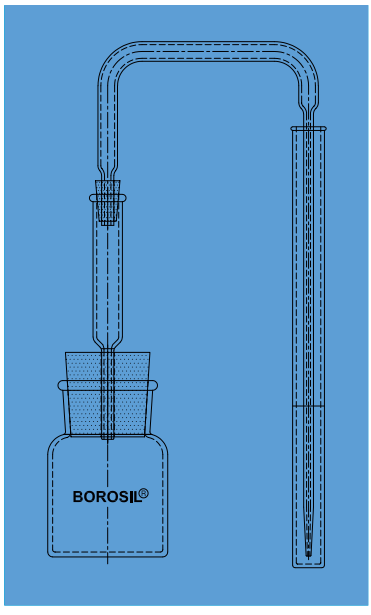
## 5204 - ARSENIC DETERMINATION APPARATUS AS PER IS





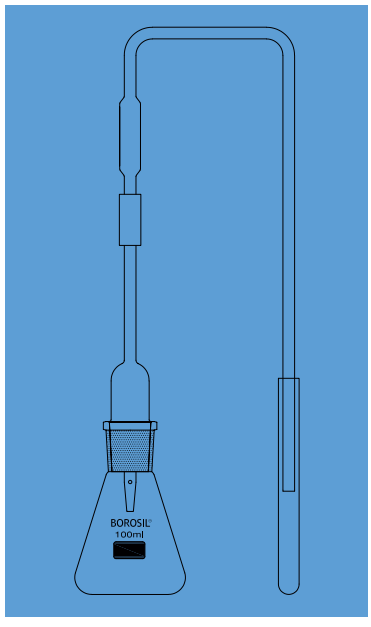
| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5204001 | 1 | 3000.00 |
| Spare parts available on request | | |

## 5205 - ARSENIC DETERMINATION APPARATUS AS PER JP

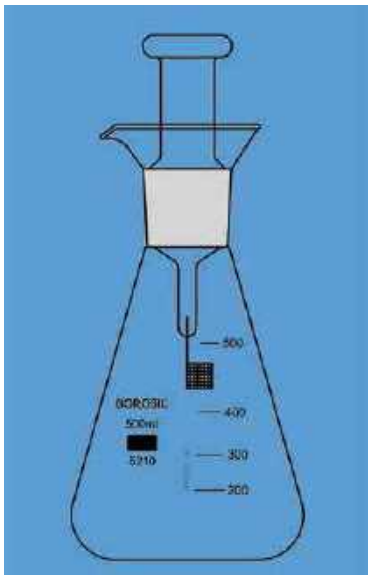



| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5205001 | 1 | 3110.00 |
| Spare parts available on request | | |

## 5206 - ARSENIC DETERMINATION APPARATUS AS PER EP




| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5206001 | 1 | 3675.00 |
| Spare parts available on request | | |

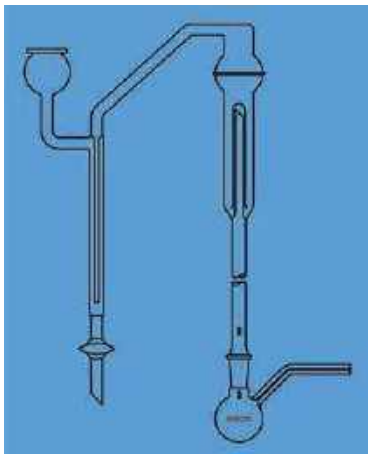


## 5210 - OXYGEN COMBUSTION FLASK AS PER USP

- Complies to ASTM E205 - 96
- Used for the determination of bromine, chlorine, iodine and sulphur

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 5210022 | 300 | 1 | **52830.00** |
| 5210024 | 500 | 1 | **57370.00** |

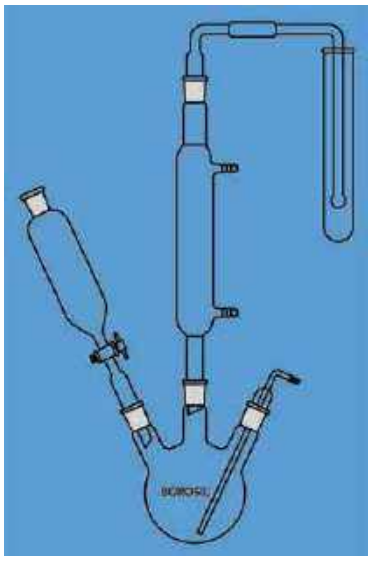
Spare parts available on request



## 5211 - METHOXY DETERMINATION ASSEMBLY AS PER USP

| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5211024 | 1 | **12760.00** |

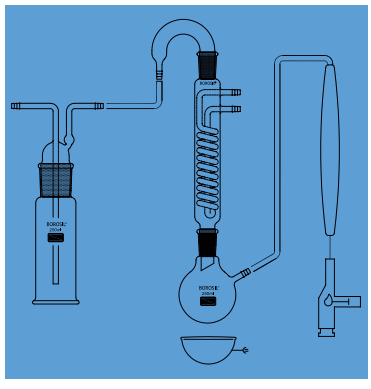
Spare parts available on request



## 5212 - SULPHUR DI-OXIDE ASSEMBLY AS PER USP

| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5212024 | 1 | **16320.00** |

Spare parts available on request



## 5215 - SODIUM ALGINATE ASSEMBLY AS PER USP

| Product Code | Quantity Per Case | Price / Piece ₹ |
|---|---|---|
| 5215021 | 1 | **28995.00** |

Spare parts available on request

BOROSIL®

# BAFFLED ERLENMEYER FLASK

*A cost-effective solution*
*for your culture preparations*

## *Ideal culture vessel for*

- Microbial culture preparations
- Enzymatic dissociation of tissues
- Culturing of suspension cells for biopharma applications
- Plant cell culturing






Made from 3.3 Low Expansion Borosilicate Glass

USP TYPE I

TYPE I ASTM E438 CLASS A

ISO 3585

BOROSIL®

BOROPURE

# Filtration Products



## Made from 3.3 Low Expansion Borosilicate Glass




**BOROSIL®** offers a complete solution for laboratory filtration applications with **BOROPURE** range of products

**BOROPURE** Glass Filter Assembly is easy to clean and 100% autoclavable and reusable. It is made of 3.3 borosilicate glass with a sintered glass filter which is compatible with most of the organic solvents. All glass filter assembly is an environment friendly and cost effective device for filtration.

**BOROPURE** Filter membranes is a new offering which includes membrane for applications such as HPLC mobile phase filtration, analysis of particulate or biological contaminants, small volume filtration and sterile filtration of media and buffer.



BOROPURE

# Filtration Products

## Glass Filtration Assembly

**Made from 3.3 Low Expansion Borosilicate Glass**

USP TYPE I | ASTM E438 TYPE I CLASS A | ISO 3585

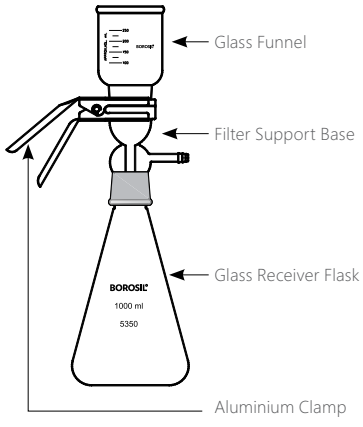





# 5350 - BOROPURE GLASS FILTRATION ASSEMBLY



- Available in two sizes - 47 mm and 90 mm
- Entire assembly consists of:
  1. Glass Funnel - Capacity: 300 ml / 1000 ml
  2. Filter Support Base with sintered glass filter - 47 mm/ 90 mm
  3. Glass Receiver Flask - 500 ml/1000 ml/2000 ml/5000 ml
  4. Aluminium Clamp - 47 mm / 90 mm
- Effective filtration area - 9.6 $cm^2$ for 47 mm and 45.5 $cm^2$ for 90 mm
- The filter support base design has an integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line from droplets
- Aluminium spring clamp is anodised for longer life
- Ideal for filtration of HPLC solvents and aqueous mobile phase solutions and buffers




## Assembly

| Product Code | Filter Support Base Size mm | Glass Funnel Capacity ml | Glass Receiver Flask Capacity ml | Aluminium Clamp mm | Quantity Per Case | Price / Set ₹ |
|---|---|---|---|---|---|---|
| 5350024 | 47 | 300 ml | 500 | 47 | 1 | **17730.00** |
| 5350029 | 47 | 300 ml | 1000 | 47 | 1 | **18355.00** |
| 5350030 | 47 | 300 ml | 2000 | 47 | 1 | **24110.00** |
| 5350033 | 90 | 1000 ml | 5000 ml | 90 | 1 | **65250.00** |
| 5350A29 | 90 | 1000 ml | 1000 ml | 90 | 1 | **On request** |

## Spares For 47 MM Filter Assembly

| Product Code | Capacity / Size | Description | Price / Piece ₹ |
|---|---|---|---|
| 5350124 | 500 ml | Glass Receiver Flask | **3750.00** |
| 5350129 | 1000 ml | Glass Receiver Flask | **5155.00** |
| 5350130 | 2000 ml | Glass Receiver Flask | **11480.00** |
| 5350S01 | 300 ml | Glass Funnel | **4590.00** |
| 5350S02 | 47 mm | Filter Support Base | **6500.00** |
| 5350S03 | 47 mm | Aluminium Clamp | **3810.00** |

## Spares For 90 MM Filter Assembly

| Product Code | Capacity / Size | Description | Price / Piece ₹ |
|---|---|---|---|
| 5350133 | 5000 ml | Glass Receiver Flask | **9550.00** |
| 5350229 | 1000 ml | Glass Receiver Flask | **On request** |
| 5350233 | 1000 ml | Glass Funnel | **14525.00** |
| 5350333 | 90 mm | Filter Support Base | **39450.00** |
| 5350433 | 90 mm | Aluminium Clamp | **5250.00** |

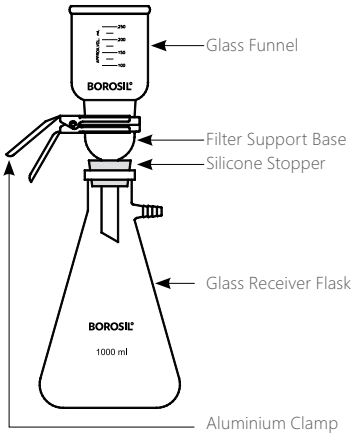
HSN Code: 70179090(for Assembly as well as spares)



# 5360 - BOROPURE GLASS FILTRATION ASSEMBLY

## With Silicone Stopper, 47 mm

- Entire assembly consists of:
  1. Glass Funnel - Capacity: 300 ml
  2. Filter Support Base with sintered glass filter - 47 mm
  3. Glass Receiver Flask - 1000 ml / 2000 ml
  4. Aluminium Clamp - 47 mm
  5. Silicone stopper: size # 8
- Effective filtration area - 9.6 $cm^2$ for 47 mm
- The filter support base design has an integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line from droplets
- Aluminium spring clamp is anodised for longer life
- The filtration base has a silicon stopper
- Facilitates analysis of particulate or biological contamination of vacuum filtering liquid




## Assembly

| Product Code | Filter Support Base Size mm | Glass Funnel Capacity ml | Glass Receiver Flask Capacity ml | Aluminium Clamp mm | Silicone stopper Size | Quantity Per Case | Price / Set ₹ |
|---|---|---|---|---|---|---|---|
| 5360029 | 47 | 300 ml | 1000 | 47 | #8 | 1 | **16430.00** |
| 5360030 | 47 | 300 ml | 2000 | 47 | #8 | 1 | **17550.00** |

## Spares For 47 MM Filter Assembly

| Product Code | Capacity / Size | Description | Price / Piece ₹ |
|---|---|---|---|
| 5360129 | 1000 ml | Glass Receiver Flask | **1085.00** |
| 5360130 | 2000 ml | Glass Receiver Flask | **2200.00** |
| 5350S01 | 300 ml | Glass Funnel | **4590.00** |
| 5360S02 | 47 mm | Filter Support Base | **6500.00** |
| 5350S03 | 47 mm | Aluminium Clamp | **3810.00** |
| 5360S05 | #8 | Silicone stopper, MOQ - Pack of 10 nos | **415.00** |

NEW

### Looking for Continuous Filtration of solvents?

Without the hassle of refilling the funnel ...

## Try our new Glass Filtration Adapter



| Product Code | Description | Size mm | Case Lot Nos | Price / Piece ₹ |
|---|---|---|---|---|
| MISC530 | Universal Filtration Adapter, Glass | 47 | 5 | **On request** |

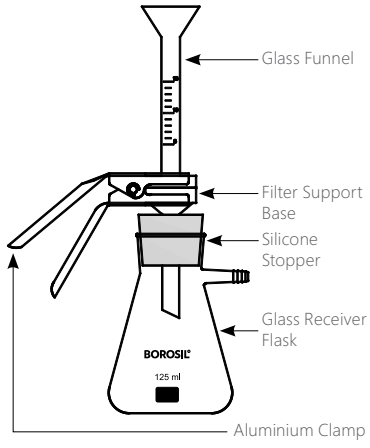
**Compatible with all glass filtration assembly: 5350, 5360, 5380 and 5385**

# 5370 - BOROPURE GLASS MICROFILTRATION ASSEMBLY

## With Silicone Stopper, 25 mm

- Entire assembly consists of:
  1. Glass Funnel - Capacity: 15 ml
  2. Filter Support Base with sintered glass filter - 25 mm
  3. Glass Reveiver Flask - 125 ml
  4. Aluminium Clamp - 25 mm
  5. Silicone stopper: size #5
- Effective filtration area - 2.2 $cm^2$ for 25 mm
- The filter support base design has an integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line from droplets
- Aluminium spring clamp is anodised for longer life
- The filtration base has a silicon stopper
- Ideal for small volume vacuum filtration for biological analysis or particulate contamination analysis.






## Assembly

| Product Code | Filter Support Base Size mm | Glass Funnel Capacity ml | Glass Receiver Flask Capacity ml | Aluminium Clamp mm | Silicone stopper Size | Quantity Per Case | Price / Set ₹ |
|---|---|---|---|---|---|---|---|
| 5370017 | 25 | 15 ml | 125 | 25 | #5 | 1 | **8735.00** |

## Spares For 25 MM Filter Assembly

| Product Code | Capacity / Size | Description | Price / Piece ₹ |
|---|---|---|---|
| 5370S01 | 125 ml | Glass Receiver Flask | **3510.00** |
| 5370S02 | 15 ml | Glass Funnel | **2135.00** |
| 5370S03 | 25 mm | Filter Support Base | **4890.00** |
| 5370S04 | 25 mm | Aluminium Clamp | **2685.00** |
| 5370S05 | #5 | Silicone stopper, MOQ - Pack of 10 nos | **340.00** |



# 5380 - BOROPURE GLASS FILTRATION ASSEMBLY

## 47 mm, With Bottle

- Entire assembly consists of:
  1. Glass Funnel - Capacity: 300 ml / 1000 ml
  2. Filter Support Base with sintered glass filter - 47 mm / 90 mm
  3. Glass Bottle with PP Screw cap - 1000 ml / 2000 ml / 5000 ml
  4. Aluminium Clamp - 47 mm / 90 mm
- Effective filtration area - 9.6 $cm^2$ for 47 mm and 45.5 $cm^2$ for 90 mm
- The filter support base design has an integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line from droplets
- Aluminium spring clamp is anodised for longer life
- The final filtrate will be collected directly in a screw cap bottle and there is no need to transfer the filtrate again into a new container for storage
- Ideal for filtration of HPLC solvents and aqueous mobile phase solutions, sterile filtration of media and buffers

## Assembly

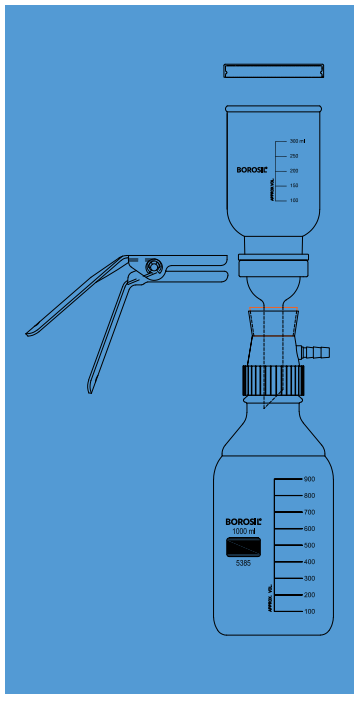
| Product Code | Filter Support Base Size mm | Glass Funnel Capacity ml | Glass Receiver Bottle Capacity ml | Aluminium Clamp mm | Quantity Per Case | Price per set ₹ |
|---|---|---|---|---|---|---|
| 5380029 | 47 | 300 ml | 1000 | 47 | 1 | **16950.00** |
| 5380030 | 47 | 300 ml | 2000 | 47 | 1 | **17500.00** |
| 5380033 | 90 | 1000 ml | 5000 | 90 | 1 | **On request** |

## Spares For 47 MM Filter Assembly

| Product Code | Capacity / Size | Description | Price / Piece ₹ |
|---|---|---|---|
| 5380129 | 1000 ml | Glass Receiver Bottle with GL 45 screw cap | **3500.00** |
| 5380130 | 2000 ml | Glass Receiver Bottle with GL 45 screw cap | **4500.00** |
| 5350S01 | 300 ml | Glass Funnel | **4590.00** |
| 5380S02 | 47 mm | Filter Support Base | **7200.00** |
| 5350S03 | 47 mm | Aluminium Clamp | **3810.00** |

# 5385 - BOROPURE GLASS FILTRATION ASSEMBLY NEW

## With GL 45 Universal Adapter, 47mm




- The universal adatpor will connect directly to GL 45 bottle
- The final filtrate will be collected directly in a screw cap bottle and there is no need to transfer the filtrate again into a new container for storage
- Entire assembly consists of:
  1. Glass Funnel - Capacity: 300 ml / 1000 ml
  2. Filter Support Base with sintered glass filter - 47 mm
  3. GL 45 Filtration Adapter
  4. Glass Bottle with PP Screw cap - 1000 ml / 2000 ml
  5. Aluminium Clamp - 47 mm
  6. Effective filtration area - 9.6 cm2 for 47 mm
- The GL 45 universal adapter is made of polypropylene and has a vacuum connection and GL 45 threads
- Aluminium spring clamp is anodised for longer life
- Ideal for filtration of HPLC solvents and aqueous mobile phase solutions, sterile filtration of media and buffers

| Product Code | Funnel Capacity (ml) | Filtration Support base size (mm) | Filtration adapter | Glass Bottle (ml) | Aluminium Clamp | Qty per case | Price / Set ₹ |
|---|---|---|---|---|---|---|---|
| 5385029 | 300ml | 47 | GL 45 | 1000 | 47 | 1 | **17500.00** |
| 5385030 | 300ml | 47 | GL 45 | 2000 | 47 | 1 | **18050.00** |

## Spares For 47 MM Filter Assembly

| Product Code | Capacity / Size | Description | Price / Piece ₹ |
|---|---|---|---|
| 1501029 | 1000 ml | Glass Bottle with GL 45 screw cap | **695.00** |
| 1501030 | 2000 ml | Glass Bottle with GL 45 screw cap | **1240.00** |
| 5350S01 | 300 ml | Glass Funnel | **4590.00** |
| 5360S02 | 47 mm | Filter Support Base | **6500.00** |
| 5350S03 | 47 mm | Aluminium Clamp | **3810.00** |
| 5385S01 | GL 45 | GL 45 Filtration Adapter | **2850.00** |

BOROPURE

# Filtration Products

## Stainless Steel Filtration Assembly

Sturdy and easy to clean SS Filtration assembly for laboratory applications like filtration of HPLC solvents, media, buffers and for microbiological analysis.



SS Filter Assembly
**With Inbuilt Clamp**



SS Filter Assembly
**With External Clamp**



SS Filter Assembly
**Spin Lock Type**
(No clamp required)



## 5330 - BOROPURE SS FILTER ASSEMBLY WITH INBUILT CLAMP, 47MM NEW




- Made of SS 316
- Entire Assembly consists of:
  1. SS Funnel : 300ml / 500ml / 1L with inbuilt Clamp
  2. SS Filter Support Base
  3. SS Support Screen: 47mm
  4. Silicone Stopper: Size #8 for 300 ml & 500 ml funnel, #10 for 1L funnel
  5. Silicone Lid
  6. Silicone O ring

| Product Code | Description | Funnel Capacity (ml) | Filter Support base diameter (mm) | Filtration Area (cm square) | Quantity per case | Price ₹ |
|---|---|---|---|---|---|---|
| 5330022 | SS Filter Assembly, Inbuilt Clamp, 300ml | 300 | 47 | 9.6 | 1 | **7550.00** |
| 5330024 | SS Filter Assembly, Inbuilt Clamp, 500ml | 500 | 47 | 9.6 | 1 | **On request** |
| 5330029 | SS Filter Assembly, Inbuilt Clamp, 1000ml | 1000 | 47 | 9.6 | 1 | **On request** |



## 5331 - BOROPURE SS FILTER ASSEMBLY WITH EXTERNAL CLAMP, 47MM NEW




- Made of SS 316
- Entire Assembly consists of:
  1. SS Funnel : 300ml / 500ml / 1L with external Clamp
  2. SS Filter Support Base
  3. SS Support Screen: 47mm
  4. Silicone Stopper: Size #8 for 300 ml & 500 ml funnel, #10 for 1L funnel
  5. Aluminum Clamp: 47mm
  6. Silicone Lid

| Product Code | Description | Funnel Capacity (ml) | Filter Support base diameter (mm) | Filtration Area (cm square) | Quantity per case | Price ₹ |
|---|---|---|---|---|---|---|
| 5331022 | SS Filter Assembly, External Clamp, 300ml | 300 | 47 | 9.6 | 1 | **17750.00** |
| 5331024 | SS Filter Assembly, External Clamp, 500ml | 500 | 47 | 9.6 | 1 | **On request** |
| 5331029 | SS Filter Assembly, External Clamp, 1000ml | 1000 | 47 | 9.6 | 1 | **On request** |




## 5332 - BOROPURE SS FILTER ASSEMBLY WITH SPIN-LOCK TYPE, 47MM NEW

- Made of SS 316
- Entire Assembly consists of:
  1. SS Funnel : 300ml / 500ml / 1L With Spin-lock mechanism
  2. SS Filter Support Base
  3. SS Support Screen: 47mm
  4. Silicone Stopper: Size #8 for 300 ml & 500 ml funnel, #10 for 1L funnel
  5. Silicone Lid

| Product Code | Description | Funnel Capacity (ml) | Filter Support base diameter (mm) | Filtration Area (cm square) | Quantity per case | Price ₹ |
|---|---|---|---|---|---|---|
| 5332022 | SS Filter Assembly, Spin-lock type, 300ml | 300 | 47 | 9.6 | 1 | **36500.00** |
| 5332024 | SS Filter Assembly, Spin-lock type, 500ml | 500 | 47 | 9.6 | 1 | **On request** |
| 5332029 | SS Filter Assembly, Spin-lock type,1000ml | 1000 | 47 | 9.6 | 1 | **On request** |



## 5333 - BOROPURE SS VACUUM FILTRATION MANIFOLD NEW

- Made of SS 316
- Body made of SS 316L
- Valves made of PTFE
- Connection: 12mm
- Suitable for Glass, PP and Stainless Steel funnels with rubber stopper fittings

| Product Code | Description | Stages | Quantity per case | Price ₹ |
|---|---|---|---|---|
| 5333003 | 3 Place manifold SS Filtration manifold | 3 | 1 | **40500.00** |
| 5333006 | 6 Place manifold SS Filtration manifold | 6 | 1 | **On request** |

*SS Funnel not included with manifold assembly

## 5334 - BOROPURE VACUUM FILTRATION PUMP NEW

- Suitable for use with SS Manifold (5333)
- Oil-free diaphragm based pump
- Compact pump with high flow rate
- Material in contact with the liquid: Silicon, PTFE, SS316L (Connector) and Body Mild steel Powder Coated
- Dimensions: 18x18x12 cm
- Weight: 2.8kg
- Tubing connection: 8mm hose
- Vacuum: 300 mbar, can achieve maximum trans-membrane pressure of 400 mbar and flow rate 5 L/min
- Motor Power: 60w
- Noise: 45db
- Product includes:
- Main unit, Power Adaptor 2.5amp,230 VAC, Power cord and 3x3 meter silicon tubing




| Product Code | Description | Quantity per case | Price ₹ |
|---|---|---|---|
| 5334001 | Vacuum Filtration Pump | 1 | On request |



## 5335 - FILTRATION ASSEMBLY WITH INBUILT PUMP NEW




- Flow rate: 4.5L/min
- Motor Power: 60w 24 VDC
- Tubing connection: 8mm hose
- Material in contact with liquid filtered: Silicon, PTFE, SS 316L
- Compatible with SS, disposable and reusable funnels with suitable adapter

| Product Code | Description | No of branches | Dimensions (LxWxH)(cm) | Weight (kg) | Quantity per case | Price ₹ |
|---|---|---|---|---|---|---|
| 5335003 | 3 Place Filtration Manifold Assembly with Inbuilt pump | 3 | 40x18x15 | 6 | 1 | On request |



5335ARF

### Adapters for Filtration Assembly

| Product Code | Description | Quantity per case | Price ₹ |
|---|---|---|---|
| 5335ARF | Adapter C1 (for reusable PP funnel) | 1 | On request |
| 5335ARB | Adapter C2 (for Rubber stopper filter holder) | 1 | On request |
| 5335ADF | Adapter C3 (for dispoasable sterile funnel) | 1 | On request |
| 5335AST | Adapter C4 (for silicon tube) | 1 | On request |



5335ADF

*Funnels and adapters not included with the assembly

BOROPURE

# Filtration Products

## Membrane Filters

BOROPURE Membrane filters for application such as HPLC mobile phase filtration, analysis of particulate or biological contaminants, small volume filtration of media and buffers.



## 5147 - BOROPURE CELLULOSE NITRATE MEMBRANE NEW



- Hydrophilic in nature and biologically inert
- High retention and high flow rate
- Available in two pore sizes - 0.22 micron and 0.45 micron
- Autoclavable at 121°C for 30 mins for sterilization
- Recommended for applications like clarification and sterlization of media, reagents and buffers, sterility testing, water testing, product and water microbiology
- *Tested for : Membrane integrity, Flow rate, Membrane thickness, Heat stability and Microbial Challenge Test*

| Product Code | Description | Pore size mm | Diameter mm | Membrane /pack Nos | Price per pack ₹ |
|---|---|---|---|---|---|
| 514722N | Cellulose Nitrate Membrane, Non- sterile | 0.22 | 47 | 100 | **1790.00** |
| 514745N | Cellulose Nitrate Membrane, Non- sterile | 0.45 | 47 | 100 | **1790.00** |

## 5247 - BOROPURE GRIDDED CELLULOSE NITRATE MEMBRANE NEW



- Hydrophilic in nature and biologically inert
- High retention and high flow rate
- White membrane with black grids which make the colony counting easier
- Grids do not inhibit the growth of microorganisms
- Available in two pore sizes - 0.22 micron and 0.45 micron
- Autoclavable at 121°C for 30 mins for sterilization
- Recommended for applications like water testing, product and water microbiology
- *Tested for : Membrane integrity, Flow rate, Membrane thickness, Heat stability , Microbial Challenge Test and Growth Inhibition*

| Product Code | Description | Pore size mm | Diameter mm | Membrane /pack Nos | Price per pack ₹ |
|---|---|---|---|---|---|
| 524722N | Gridded Cellulose Nitrate Membrane, Non- sterile | 0.22 | 47 | 100 | **1975.00** |
| 524745N | Gridded Cellulose Nitrate Membrane, Non- sterile | 0.45 | 47 | 100 | **1975.00** |

## 5347 - BOROPURE NYLON-66 MEMBRANE NEW

### HPLC Grade



- Hydrophilic in nature and biologically inert
- Wide chemical compatibility and resistant to strong solvents and alcohols
- Available in two pore sizes - 0.22 micron and 0.45 micron
- Autoclavable at 121°C for 30 mins for sterilization
- Recommended for applications like clarification of aqueous and organic HPLC mobile phase solvents, HPLC sample preparations
- *Tested for : Membrane integrity, Flow rate, Membrane thickness, Heat stability, Fibre/ particle release and Extractables*

| Product Code | Description | Pore size mm | Diameter mm | Membrane /pack Nos | Price per pack ₹ |
|---|---|---|---|---|---|
| 534722N | Nylon-66 Membrane, Non- sterile | 0.22 | 47 | 100 | **2070.00** |
| 534745N | Nylon-66 Membrane, Non- sterile | 0.45 | 47 | 100 | **2070.00** |

For membranes of other diameter and pore sizes, please contact our local sales representative

# BOROSIL®
## Laboratory
# Filter Media

for Accurate Analysis and Consistent Results





- QUALITATIVE FILTER PAPERS
- ASHLESS QUANTITATIVE FILTER PAPERS
- HARDENDED ASHLESS FILTER PAPERS
- GLASS FIBRE FILTER PAPERS

Borosil Filter Papers are made in collaboration with Hahnemühle - the pioneers in speciality papers since 1883!

The papers contain upto 98% alpha cellulose, the most stable for of cellulose in paper pulp, hence making the papers highly stable and durable. To ensure batch to batch uniformity and consistency in filtering performance, no recycled materials are used in the manufacturing processes. Very low ash content(Lowest value 0.004%) aid the laboratory professionals in accurate quantitative analysis with minimal errors. Made in Germany, the manufacturing processes and product specifications are compliant to the stringent European QC standards, guaranteeing the users finest quality filter papers.



# BOROSIL®
## Laboratory
# Filter Media

Filter Papers

## Qualitative
### Filter Papers

Highly pure filter paper (approx. 0.08% ash)
recommended for qualitative analysis in laboratories.




In technical collaboration with
Hahnemühle

# QUALITATIVE FILTER PAPERS NEW

## High Purity Qualitative filter papers for routine laboratory filtration

- Filter papers for precise identification of materials and for sample preparation prior to sensitive detection method
- Made of refined cotton linters and cellulose
- Filter papers having >98% alpha cellulose, thereby ensuring highet stabilty and higher durability

## Applications

- Recommended for precise identification of materials and for sample preparation prior to sensitive detection methods.
- Particle separation in Juices, Wine and other beverages production
- Qualitative analysis of milk and milk products.
- Sample preparation for water analysis
- Qualitative analysis of soil, fertilizer, animal feed

## Technical Data

| Grade | Sample | Speed | Retention rate [µm] | Filtration Herzberg (s) | Thickness (mm) | Weight [g/m$^2$] |
|---|---|---|---|---|---|---|
| B59501 | Medium fine precipitates | Medium fast, thin | 4 – 7 | 160 | 0.15 | 68 |
| B59702 | Medium-fine, crystalline precipitates | Medium fast | 4 – 7 | 155 | 0.18 | 85 |
| B59303 | Fine precipitates | Medium slow | 2 – 5 | 450 | 0.17 | 84 |
| B60404 | Coarse precipitates | Fast | 12– 25 | 50 | 0.19 | 79 |

* Approximate values,
** Measured with 100mm water column instead of 50 mm

Filter Papers

## APPLICATIONS



Agriculture



Food



Chemicals

and many more...

# FILTER PAPER CIRCLES

## Ordering Info

| Product code | Size (dia in mm) | Pack size | List Price Price / Pack ₹ |
|---|---|---|---|
| **Grade B59501** | | | |
| FPB595010070 | 70 | 100 | **1315.00** |
| FPB595010090 | 90 | 100 | **1130.00** |
| FPB595010110 | 110 | 100 | **1235.00** |
| FPB595010125 | 125 | 100 | **1410.00** |
| FPB595010150 | 150 | 100 | **1645.00** |
| FPB595010185 | 185 | 100 | **2460.00** |
| FPB595010240 | 240 | 100 | **5135.00** |
| **Grade 59702** | | | |
| FPB597020070 | 70 | 100 | **1415.00** |
| FPB597020090 | 90 | 100 | **1365.00** |
| FPB597020110 | 110 | 100 | **1585.00** |
| FPB597020125 | 125 | 100 | **1665.00** |
| FPB597020150 | 150 | 100 | **2460.00** |
| **Grade 59303** | | | |
| FPB593030070 | 70 | 100 | **2075.00** |
| FPB593030090 | 90 | 100 | **2265.00** |
| FPB593030110 | 110 | 100 | **2180.00** |
| FPB593030125 | 125 | 100 | **3065.00** |
| FPB593030150 | 150 | 100 | **3195.00** |
| **Grade 60404** | | | |
| FPB604040047 | 47 | 100 | **1145.00** |
| FPB604040055 | 55 | 100 | **1215.00** |
| FPB604040070 | 70 | 100 | **1215.00** |
| FPB604040090 | 90 | 100 | **1320.00** |
| FPB604040110 | 110 | 100 | **1640.00** |
| FPB604040125 | 125 | 100 | **1835.00** |
| FPB604040150 | 150 | 100 | **2510.00** |
| FPB604040185 | 185 | 100 | **3635.00** |
| FPB604040240 | 240 | 100 | **6435.00** |
| FPB604040320 | 320 | 100 | **10355.00** |

HSN Code 48232000

# FILTER PAPER SHEETS

| Product code | Size of sheets (in cm) | Pack size | List Price Price / Pack ₹ |
|---|---|---|---|
| FPB595014657 | 46*57 | 100 | **13200.00** |
| FPB597024657 | 46*57 | 100 | **21860.00** |
| FPB593034657 | 46*57 | 100 | **39745.00** |
| FPB604044657 | 46*57 | 100 | **27320.00** |

HSN Code 48054000

BOROSIL®

# Flasks

## For general laboratory applications

- Conforms to IS 1381 (Part I) ISO 1773
- Mechanically strong
- Uniform Wall Thickness
- Ideal for heating applications
- Shape suitable for mixing liquid
- Available in Wide neck / Screw Cap and Amber colour
- Ideal for culture work



# BOROSIL®
## Laboratory
# Filter Media

Filter Papers

## Ashless Quantitative
### Filter Papers

Ashless filters (avg ash content 0.004 %)
for quantitative analysis, routine gravimetric tests
and sample preparation for instrumental analysis.




In technical collaboration with
Hahnemühle

# Quantitative Filter Papers NEW

## Ashless quantitative filter papers for precise gravimetric tests, quantitative analysis of elements and sample preparation for instrumental analysis.

- Lowest ash content - 0.004%
- Made of refined cotton linters and cellulose
- Free of minerals and metallic ions,hence ideal for the detection of metallic ions
- Filter papers having >98% alpha cellulose, thereby ensuring highet stabilty and higher durability

## Applications

- Determination and quantification of elements is soil, fertilizer, animal etc
- Gravimetric analysis in food products like milk and milk products, sugar, meat and meat products
- Quantitaive analysis of elements in chemicals, pharmaceuticals, cement industry, food products etc
- Analysis of oil for its components
- Water analysis

## Technical Data

| Grade | Sample | Speed | Retention rate* [µm] | Filtration Herzberg (s) | Thickness (mm) | Weight [g/m$^2$] | Avg ash content |
|---|---|---|---|---|---|---|---|
| B58940 | Fine crystalline precipitates | Medium | 2-4 | 450 | 0.17 | 84 | 0.004% |
| B58941 | Coarse and gelatinous precipitates | Fast | 12-25 | 50 | 0.19 | 79 | 0.004% |
| B58942 | Very fine crystalline precipitates | Slow | <2 | 750** | 0.16 | 84 | 0.004% |
| B58943 | Coarse precipitates | Medium Fast | 4-12 | 140 | 0.18 | 85 | 0.004% |
| B58944 | Fine crystalline precipitates | Slow thin | 2 | 900 | 0.15 | 74 | 0.004% |

* Approximate values,
** Measured with 100mm water column instead of 50 mm

## APPLICATIONS



Cement



Chemicals



Food

and many more...

# FILTER PAPER CIRCLES

## Ordering Info

| Product code | Size (dia in mm) | Pack size | List Price Price / Pack ₹ |
|---|---|---|---|
| **Grade B58940** | | | |
| FPB589400070 | 70 | 100 | **2290.00** |
| FPB589400090 | 90 | 100 | **2860.00** |
| FPB589400110 | 110 | 100 | **3420.00** |
| FPB589400125 | 125 | 100 | **4285.00** |
| FPB589400150 | 150 | 100 | **5500.00** |
| FPB589400185 | 185 | 100 | **9110.00** |
| FPB589400240 | 240 | 100 | **18340.00** |
| **Grade B58941** | | | |
| FPB589410070 | 70 | 100 | **2355.00** |
| FPB589410090 | 90 | 100 | **2985.00** |
| FPB589410110 | 110 | 100 | **4010.00** |
| FPB589410125 | 125 | 100 | **4560.00** |
| FPB589410150 | 150 | 100 | **5920.00** |
| FPB589410185 | 185 | 100 | **8585.00** |
| **Grade B58942** | | | |
| FPB589420055 | 55 | 100 | **1880.00** |
| FPB589420070 | 70 | 100 | **2355.00** |
| FPB589420090 | 90 | 100 | **2860.00** |
| FPB589420110 | 110 | 100 | **3605.00** |
| FPB589420125 | 125 | 100 | **4285.00** |
| FPB589420150 | 150 | 100 | **5500.00** |
| **Grade B58943** | | | |
| FPB589430012 | 12.7 | 1000 | **4500.00** |
| FPB589430125 | 125 | 100 | **4245.00** |
| **Grade B58944** | | | |
| FPB589440090 | 90 | 100 | **3275.00** |
| FPB589440110 | 110 | 100 | **3885.00** |
| FPB589440125 | 125 | 100 | **4395.00** |
| FPB589440150 | 150 | 100 | **7480.00** |
| FPB589440185 | 185 | 100 | **10670.00** |

HSN Code 48232000

# FILTER PAPER SHEETS

| Product code | Size of sheets (in cm) | Pack size | List Price Price / Pack ₹ |
|---|---|---|---|
| FPB589404657 | 46*57 | 100 | **58165.00** |
| FPB589414657 | 46*57 | 100 | **54880.00** |
| FPB589424657 | 46*57 | 100 | **53160.00** |

HSN Code 48054000



LABQUEST BY BOROSIL®

Did you know that around 90% of the errors in experiments are due to inaccurate chemical measurements?

# It's time to take your experiments to the next level !

## Laboratory Bottle Top Dispensers

are designed to measure reagents with **precision** and **accuracy** along with its exceptional chemical resistance.

PATENT APPLIED

DIY
DO IT YOURSELF
Re-Calibration




Without recirculation | With recirculation

Manufactured in BOROSIL® TECHNOLOGIES

SMART | RUGGED | PRACTICAL

# BOROSIL®
## Laboratory
## Filter Media

Filter Papers

## Hardened Ashless

Filter Papers for quantitative analysis :

Hardened ashless filters (ash content approx. 0.003%), especially recommended for filtration applications requiring vacuum and pressure filtration, and for the use of acidic and alkaline solutions.




In technical collaboration with
Hahnemühle

# HARDENED ASHLESS FILTER PAPERS NEW

## Hardened ashless quantitative filter papers for quantitative and gravimetric analysis requiring high pressure or aggressive chemicals

- Avg ash content 0.003%
- Very high wet strength; hence easy to scrap off or wash off precipitates
- Hardened by small quantities of nitrogen-containing resin, which does not introduce significant impurities into the filtrate
- High resistance to aggressive chemical components, like sulphuric and nitric acids (upto 40 % at 50 ° Celsius) and alkalis (up to 10 % at 20 ° Celsius)
- Made of super-refined cotton linters and cellulose with alpha cellulose content more than 98%, hence higher stability and higher durability

## Applications

- Gravimetric determination of metals in acidic/alkaline solutions.
- Quality control of chemicals
- Gravimetric analysis in oil refinery
- For analytical applications, routine quantitative and /or gravimetric procedures

## Technical Data

| Grade | Sample | Speed | Retention rate* [µm] | Filtration Herzberg (s) | Thickness | Weight [g/m$^2$] | Avg ash content |
|---|---|---|---|---|---|---|---|
| B15540 | Fine crystalline precipitates | Medium | 4-12 | 170 | 0.16 | 90 | 0.003% |
| B15541 | Coarse crystalline precipitates | Fast | 12-25 | 50 | 0.17 | 88 | 0.003% |
| B15542 | Very fine crystalline precipitates | Slow | ≤ 2 | 600** | 0.14 | 90 | 0.003% |

* Approximate values,
** Measured with 100mm water column instead of 50 mm

# FILTER CIRCLES

## Ordering Info

| Product Codes | Size (dia in mm) | Pack size | List Price Price / Pack ₹ |
|---|---|---|---|
| **Grade B15540** | | | |
| FPB155400125 | 125 | 100 | **5610.00** |
| FPB155400150 | 150 | 100 | **8130.00** |
| **Grade B15541** | | | |
| FPB155410125 | 125 | 100 | **5050.00** |
| **Grade 15542** | | | |
| FPB155420125 | 125 | 100 | **5900.00** |
| FPB155420150 | 150 | 100 | **8855.00** |

HSN Code 48232000



# BOROSIL®
## Laboratory
# Filter Media

Filter Papers

## Glass Fiber
### Filter Papers

100% micro borosilicate glass fibres for specific applications in environmental analysis




In technical collaboration with Hahnemühle

# Glass Fibre Filters NEW

## Made of 100% micro-borosilicate glass fibres, these filters are recommended for air and water pollution analysis.

- Chemically stable in acidic solutions (except hydrofluoric acid) and alkaline solutions in moderate concentrations
- Extremely low metal content
- Maintains its properties up to 500°C
- High flow speed and high permeability to air

## Applications

- Ambient air monitoring
- Determination of suspended particles (SPM and TSP) in air
- Monitoring of anthropogenic atmospheric emissions
- Gravimetric analyses of organic and inorganic contaminants in water and waste water

## Technical Data

| Type | Air permeability* (Resistance ** mbar) [L/m2 s] | Retention rate % NaCl-particle size <1 µm*** | Filtration Gurley [s] | Weight [g/m$^2$] | Thickness [mm] | Max T [°C] | Retention range [µm] |
|---|---|---|---|---|---|---|---|
| BGF50A | 25 | 99.97 | 19 | 56 | 0.29 | 500 | 1-3 |
| BGF52C | 54 | 99.995 | 25 | 54 | 0.28 | 500 | 1-3 |

* as per DIN 53887
** Air resistance at 400cm$^3$/s, A = 10cm$^2$
*** Tested with NaCl particles size <1 µm, main fraction at 0.3 to 0.5 µm

# Ordering information

| Product Codes | Size | Pack size | List Price Price / Pack ₹ |
|---|---|---|---|
| FPBGF50A0037 | 37mm diameter | 100 | **3990.00** |
| FPBGF50A0047 | 47mm diameter | 100 | **4160.00** |
| FPBGF50A203254 | 203*254mm sheet (8*10 inches) | 100 | **27950.00** |
| FPBGF52C0047 | 47mm diameter | 100 | **4200.00** |
| FPBGF52C0125 | 125mm diameter | 100 | **14690.00** |

HSN Code 70197100

## APPLICATIONS



Air Testing



Water Testing

and many more...

# BOROSIL®
## Laboratory
# Filter Media



## Thimbles

Cellulose and Glass Fibre thimbles for accurate and consistent extraction applications.





In technical collaboration with Hahnemühle

# THIMBLES NEW

## Cellulose and Glass fibre thimbles for extraction of components

- Extraction thimbles to be used in your regular soxhlet apparatus based applications
- Consistent , high porosity of thimbles ensuring a rapid flow rate
- Made of cellulose or glass fibre based on application

## Applications- Cellulose thimbles

- Extraction of fatty, greasy materials in foodstuffs, paints, varnishes etc
- Extraction of active agents from pharmaceuticals and plastic softening agents
- Analysis of pesticide waste, polyaromatic carbohydrates and dioxins in foodstuffs.
- Determination of oil content in oil-bearing seeds

## Applications- Glass Fibre thimbles

- Extraction of solvents which are incompatible with cellulsoe fibres
- Gravimetric collection of dust particles or aerosols from hot air and gas flows
- Extraction during special biocehmical analysis

## Technical Data

| Product | Material | Wall Thickness (mm) | Weight (gsm) | Air Permeability (L/m2sec) |
|---|---|---|---|---|
| Cellulose Thimble | 100% cellulose without binder | 1.6 | 2.7 | 25 |
| Glass Fibre Thimble | 100% Micro-glass fibre without binder | 1.3 | 3 | 15 |

# Ordering information

| Product Codes | Description | Size (Inner dia x height) | HSN Code | Pack size | List Price Price / Pack ₹ |
|---|---|---|---|---|---|
| FPBCTH01990 | BCTH 19x90mm Cellulose Thimbles | 19 x 90 | 48237090 | 25 | **11150.00** |
| FPBCTH022080 | BCTH 22x80mm Cellulose Thimbles | 22 x 80 | 48237090 | 25 | **11590.00** |
| FPBCTH022100 | BCTH 22x100mm Cellulose Thimbles | 22 x 100 | 48237090 | 25 | **12000.00** |
| FPBCTH025080 | BCTH 25x80mm Cellulose Thimbles | 25 x 80 | 48237090 | 25 | **11455.00** |
| FPBCTH025100 | BCTH 25x100mm Cellulose Thimbles | 25 x 100 | 48237090 | 25 | **11455.00** |
| FPBCTH028100 | BCTH 28x100mm Cellulose Thimbles | 28 x 100 | 48237090 | 25 | **11510.00** |
| FPBCTH033080 | BCTH 33x80mm Cellulose Thimbles | 33 x 80 | 48237090 | 25 | **13600.00** |
| FPBCTH033100 | BCTH 33x100mm Cellulose Thimbles | 33 x 100 | 48237090 | 25 | **13625.00** |
| FPBGFTH01990 | BGFTH 19*90mm Glass Fibre Thimbles | 19 x 90 | 70197100 | 25 | **18995.00** |

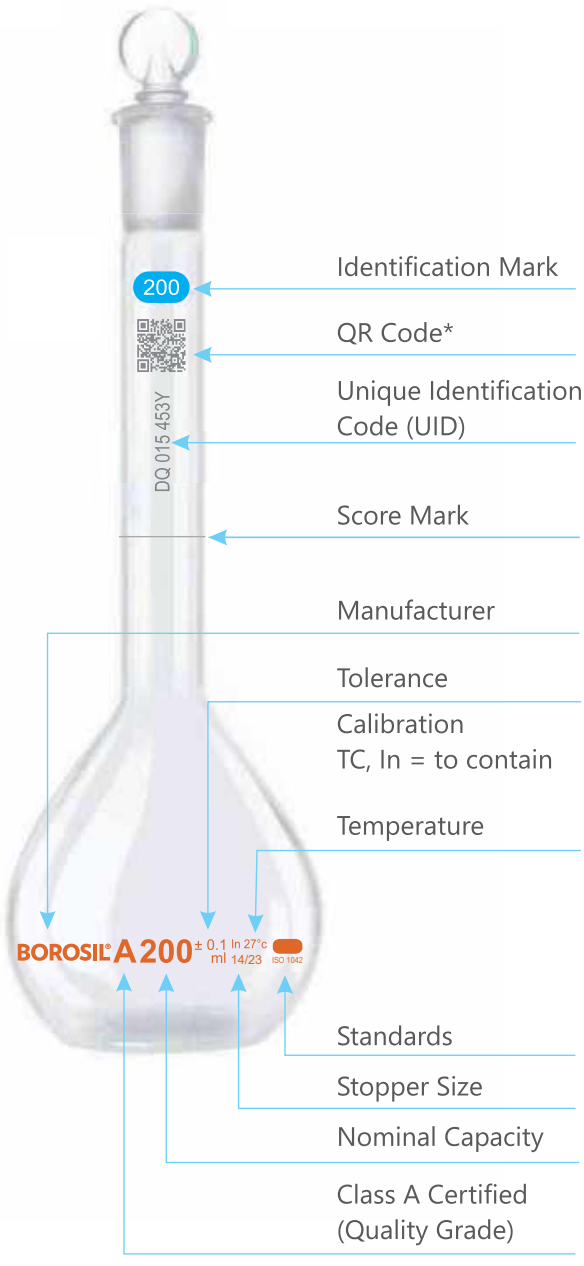
# Volumetric Flask

Volumetric Flask is a laboratory glassware that is designed to hold a certain volume at a particular temperature and indicates the nominal volume, tolerance, precision class, relevant manufacturing standard etc. **BOROSIL** Volumetric Flasks are manufactured in a range of sizes that is capable of containing 1ml to 5,000 ml of liquid.

It is very important to understand that for analysis which demands high precision, the selection of instruments is very vital. In cases where precision analysis is expected, only high accuracy instruments give the desired results. Most sophisticated automatic instruments can deliver high precision results, only if the volumetric ware used to prepare samples is accurate.

- Individually calibrated with automatic calibration process
- Strict quality control through all steps eliminate possible deviations from nominal volume
- Supplied with individual certificate which can be downloaded from our website
- Volumetric Flasks are supplied with plastic or solid glass stopper






* QR Code marking provided on request.

**BOROSIL** Volumetric Flasks are designed to give the best combination of thermal shock resistance, physical strength and resistance to chemical attack. They are made to withstand the demands of the modern laboratory and are particularly suitable for all glass apparatus assemblies.

## Made from 3.3 Low Expansion Borosilicate Glass




At **BOROSIL** we understand that different needs require different solutions. Hence we offer our clients a wide range of flasks, designed to meet their individual requirements, while ensuring optimum quality.


• Volumetric Flasks
• Funnels
• Gas Generator
• Jars & Kettles


# Calibration

- Every Volumetric Flask is calibrated on fully automatic computer controlled calibration machine, eliminating the manual error in reading the meniscus, thereby giving more accurate volume.
- Each Volumetric Flask is individually calibrated and is provided with Unique Identification Number (UID) and supplied with individual Certificate

# Printing

- All Volumetric Flasks are printed with permanent amber colour
- The amber Volumetric Flasks are printed with white ceramic enamel
- Printing is done using advanced printing technology and high quality organic enamels and inks to ensure finest printing quality

Bothered filing
hard copies
**of calibration**
**certificates for long years?**

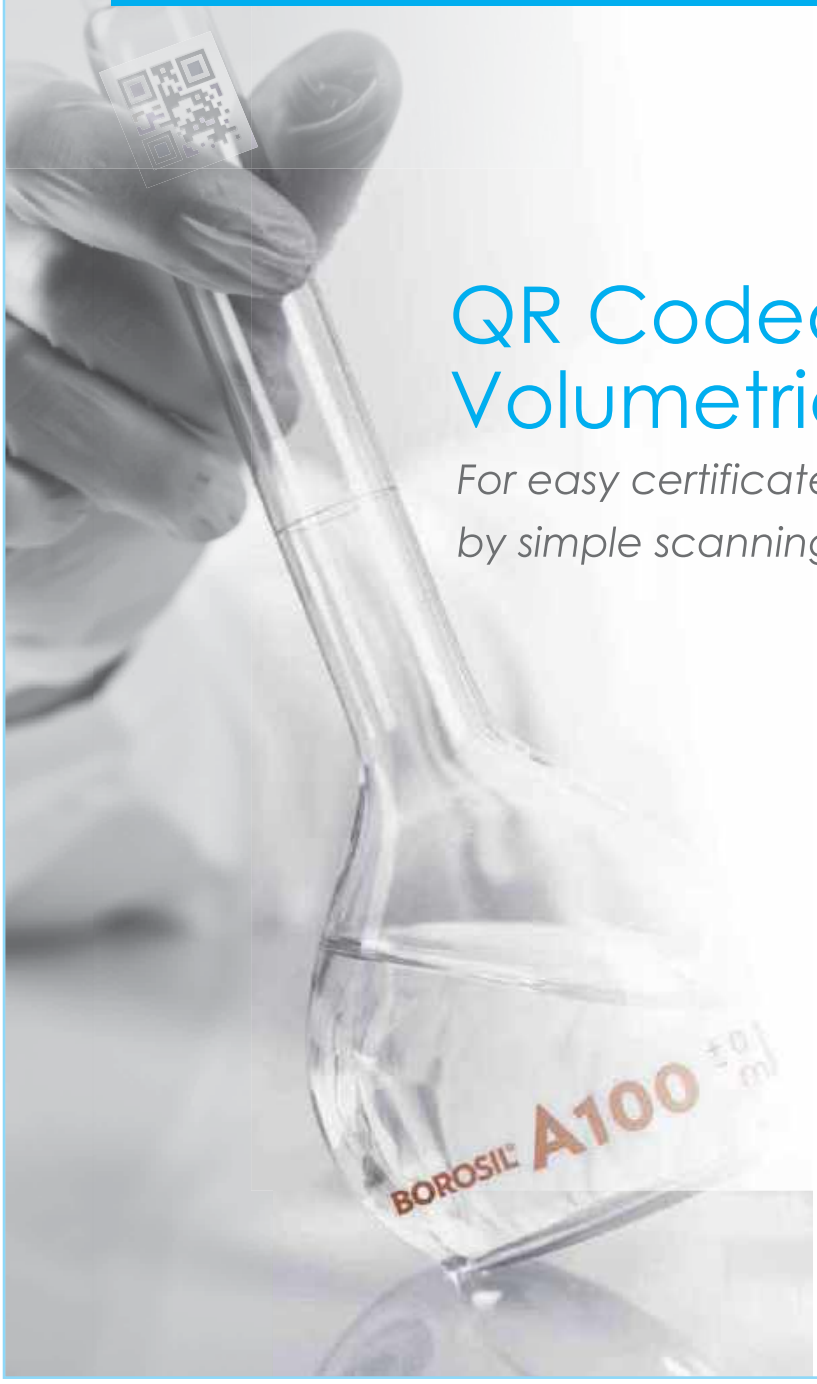


# BOROSIL®

*is right here* **with a solution**

PROUDLY MADE IN India

Volumetric Flasks




## QR Coded
## Volumetric Glassware

*For easy certificate download*
*by simple scanning of glassware*

think green
think paperless

# How to download the Certificate using **QR Code?**

Logon to the Borosil website-www.borosillab.com and enter the product certificate portal

Scan the QR Code on the glassware

Download the calibration certificate following simple steps

**Permanent QR code marking with laser technology**

**QR code encodes the data required for identification and traceability of individual volumetric ware**

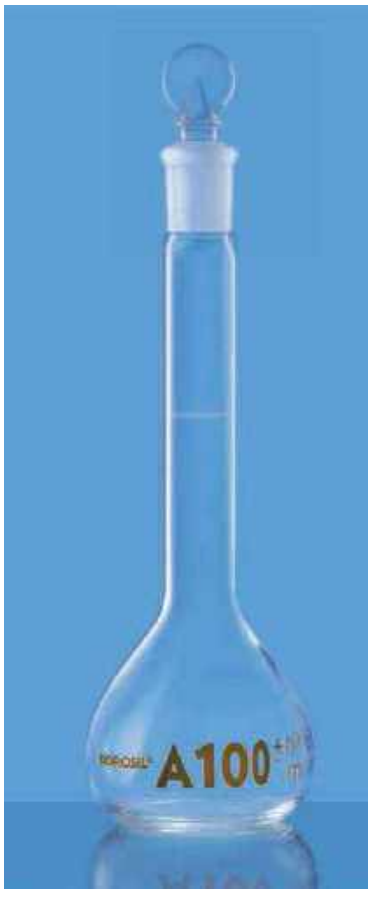
- Company name
- Product Code and name
- Unique code
- Nominal and certified Volume
- Calibration details

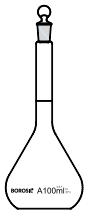



## Benefits of using QR coded Glassware

- No more filing of hard copies of calibration certificates for long years
- Download the certificates by simple scanning of glassware and print as and when required
- Easy download of list of scanned glassware in excel format
- Saves time and hassle involved in maintaining the certificates
- Less usage of paper and better for the environment
- Readiness for audit

| QR code marking available for | | | |
|---|---|---|---|
| Volumetric Flasks | Volumetric Pipettes | Graduated Pipettes | Measuring Cylinders |




## 5640 - VOLUMETRIC FLASKS

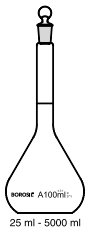
### Class A, Narrow Mouth, Clear, with Individual Calibration Certificate

- Complies with DIN / ISO 1042, Accuracy as per class A
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber enamel inscriptions
- Calibrated & certified at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5640001 | 1 | 0.025 | 7 / 16 | 5 | **1115.00** |
| 5640002 | 2 | 0.025 | 7 / 16 | 5 | **1115.00** |
| 5640005 | 5 | 0.025 | 10 / 19 # | 5 | **1005.00** |
| 5640006 | 10 | 0.025 | 10 / 19 # | 5 | **870.00** |
| 5640008 | 20 | 0.04 | 10 / 19 | 5 | **870.00** |
| 5640009 | 25 | 0.04 | 10 / 19 | 5 | **805.00** |
| 5640012 | 50 | 0.06 | 12 / 21 | 10 | **760.00** |
| 5640016 | 100 | 0.10 | 14 / 23 | 10 | **740.00** |
| 5640020 | 200 | 0.15 | 14 / 23 | 10 | **1050.00** |
| 5640021 | 250 | 0.15 | 14 / 23 | 10 | **1050.00** |
| 5640024 | 500 | 0.25 | 19 / 26 | 10 | **1375.00** |
| 5640029 | 1000 | 0.40 | 24 / 29 | 10 | **2010.00** |
| 5640030 | 2000 | 0.60 | 29 / 32 | 2 | **3265.00** |
| 5640033 | 5000 | 1.20 | 34 / 35 | 1 | **13965.00** |

- 1 ml to 20 ml supplied with trapezoidal shape for better stability
- # Stopper size as per Borosil Design




## 5641 - VOLUMETRIC FLASKS

### Class B, Narrow Mouth, Clear

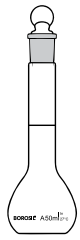
- Complies with DIN / ISO 1042, Accuracy as per class B
- Supplied with interchangeable glass stopper
- Amber enamel inscriptions
- Calibrated at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5641001 | 1 | 0.05 | 7 / 16 | 10 | **370.00** |
| 5641002 | 2 | 0.05 | 7 / 16 | 10 | **335.00** |
| 5641005 | 5 | 0.05 | 10 / 19# | 10 | **310.00** |
| 5641006 | 10 | 0.05 | 10 / 19# | 10 | **290.00** |
| 5641008 | 20 | 0.08 | 10 / 19 | 10 | **290.00** |
| 5641009 | 25 | 0.08 | 10 / 19 | 10 | **285.00** |
| 5641012 | 50 | 0.12 | 12 / 21 | 10 | **310.00** |
| 5641016 | 100 | 0.20 | 14 / 23 | 10 | **340.00** |
| 5641020 | 200 | 0.30 | 14 / 23 | 10 | **400.00** |
| 5641021 | 250 | 0.30 | 14 / 23 | 10 | **415.00** |
| 5641024 | 500 | 0.50 | 19 / 26 | 10 | **580.00** |
| 5641029 | 1000 | 0.80 | 24 / 29 | 10 | **950.00** |
| 5641030 | 2000 | 1.20 | 29 / 32 | 2 | **1980.00** |
| 5641033 | 5000 | 2.40 | 34 / 35 | 1 | **7095.00** |

- 1 ml to 20 ml supplied with trapezoidal shape for better stability
- Certified and Calibrated at 27°C
- # Stopper size as per Borosil Design

# 5643 - VOLUMETRIC FLASKS

## Class A, Wide Mouth, Clear, with Individual Calibration Certificate





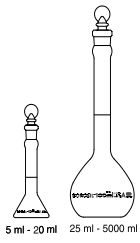

- Complies with DIN / ISO 1042, Accuracy as per class A
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber enamel inscriptions
- Specially designed wide mouth for testing bigger diameter tablet without making it in powder form
- Calibrated & certified at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5643005 | 5 | 0.04 | 12 / 21# | 5 | **1000.00** |
| 5643006 | 10 | 0.04 | 12 / 21# | 5 | **870.00** |
| 5643008 | 20 | 0.06 | 12 / 21 | 5 | **880.00** |
| 5643009 | 25 | 0.06 | 12 / 21 | 5 | **955.00** |
| 5643A09 | 25* | 0.06 | 14 / 23# | 5 | **940.00** |
| 5643012 | 50 | 0.10 | 14 / 23 | 10 | **920.00** |
| 5643016 | 100* | 0.10 | 19 / 26 | 10 | **965.00** |
| 5643020 | 200* | 0.15 | 19 / 26 | 10 | **1270.00** |
| 5643021 | 250* | 0.15 | 19 / 26 | 10 | **1355.00** |
| 5643024 | 500 | 0.25 | 24 / 29 | 10 | **1515.00** |
| 5643029 | 1000 | 0.60 | 29 / 32 | 10 | **2090.00** |

- * Not covered in the standards
- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- # 5 ml & 10 ml (# Stopper size as per borosil design)

# 5645 - VOLUMETRIC FLASKS

## ASTM, Narrow Mouth, Clear, with Individual Calibration Certificate





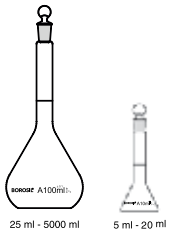


- Complies fully with ASTM E 288 standards - For both dimensions as well as tolerance
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber enamel inscriptions
- Calibrated & certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5645005 | 5 | 0.02 | 9 | 5 | **1125.00** |
| 5645006 | 10 | 0.02 | 9 | 5 | **975.00** |
| 5645008 | 20 | 0.03 | 9 | 5 | **980.00** |
| 5645009 | 25 | 0.03 | 9 | 5 | **900.00** |
| 5645012 | 50 | 0.05 | 9 | 10 | **855.00** |
| 5645016 | 100 | 0.08 | 13 | 10 | **840.00** |
| 5645020 | 200 | 0.10 | 16 | 10 | **1175.00** |
| 5645021 | 250 | 0.12 | 16 | 10 | **1180.00** |
| 5645024 | 500 | 0.20 | 19 | 10 | **1555.00** |
| 5645029 | 1000 | 0.30 | 22 | 10 | **2260.00** |
| 5645030 | 2000 | 0.50 | 27 | 2 | **3670.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- For Stopper dimensions refer page no. 36




## 5645D - VOLUMETRIC FLASKS

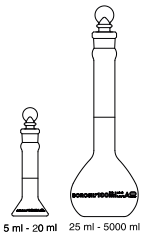
### Class A, USP, Narrow Mouth, Clear, with Individual Calibration Certificate

- Tolerance complies to USP / ASTM E288 standards and dimensions as per ISO 1042 standards
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber enamel inscriptions
- Calibrated & certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5645005D | 5 | 0.02 | 10 / 19# | 5 | **1125.00** |
| 5645006D | 10 | 0.02 | 10 / 19# | 5 | **975.00** |
| 5645008D | 20 | 0.03 | 10 / 19 | 5 | **980.00** |
| 5645009D | 25 | 0.03 | 10 / 19 | 5 | **900.00** |
| 5645012D | 50 | 0.05 | 12 / 21 | 10 | **855.00** |
| 5645016D | 100 | 0.08 | 14 / 23 | 10 | **840.00** |
| 5645020D | 200 | 0.10 | 14 / 23 | 10 | **1175.00** |
| 5645021D | 250 | 0.12 | 14 / 23 | 10 | **1180.00** |
| 5645024D | 500 | 0.20 | 19 / 26 | 10 | **1555.00** |
| 5645029D | 1000 | 0.30 | 24 / 29 | 10 | **2260.00** |
| 5645030D | 2000 | 0.50 | 29 / 32 | 2 | **3670.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- # 5 ml & 10 ml stopper size Stopper size as per borosil design




## 5647 - VOLUMETRIC FLASKS

### ASTM, Wide Mouth, Clear, with Individual Calibration Certificate

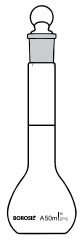
- Complies fully with ASTM E 288 standards - For both dimensions as well as tolerance
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber enamel inscriptions
- Specially designed wide mouth for testing bigger diameter tablets without making it in powder form
- Calibrated & certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5647005 | 5 | 0.08 | 13 | 5 | **1070.00** |
| 5647006 | 10 | 0.08 | 13 | 5 | **925.00** |
| 5647008 | 20 | 0.08 | 13 | 5 | **955.00** |
| 5647009 | 25 | 0.08 | 13 | 5 | **1020.00** |
| 5647012 | 50 | 0.08 | 13 | 10 | **1000.00** |
| 5647016 | 100 | 0.10 | 16 | 10 | **1050.00** |
| 5647020 | 200 | 0.20 | 19 | 10 | **1235.00** |
| 5647021 | 250 | 0.20 | 19 | 10 | **1330.00** |
| 5647024 | 500 | | | 10 | **1655.00** |
| 5647029 | 1000 | | | 10 | **2400.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- For Stopper dimensions refer page no. 36

# 5647D - VOLUMETRIC FLASKS

## Class A, USP, Wide Mouth, Clear, with Individual Calibration Certificate





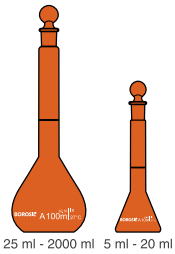

- Tolerance complies to ASTM E288 standards and dimensions as per ISO 1042 standards
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber enamel inscriptions
- Specially designed wide mouth for testing bigger diameter tablets without making it in powder form
- Calibrated & certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5647005D | 5 | 0.08 | 12 / 21# | 5 | **1070.00** |
| 5647006D | 10 | 0.08 | 12 / 21# | 5 | **925.00** |
| 5647008D | 20 | 0.08 | 12 / 21 | 5 | **955.00** |
| 5647009D | 25 | 0.08 | 12 / 21 | 5 | **1020.00** |
| 5647012D | 50 | 0.08 | 14 / 23 | 10 | **1000.00** |
| 5647016D | 100 | 0.10 | 19 / 26 | 10 | **1050.00** |
| 5647020D | 200 | 0.20 | 19 / 26 | 10 | **1235.00** |
| 5647021D | 250 | 0.20 | 19 / 26 | 10 | **1330.00** |
| 5647024D | 500 | 0.30 | 24 / 29 | 10 | **1655.00** |
| 5647029D | 1000 | 0.40 | 29 / 32 | 10 | **2400.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- # Stopper size as per Borosil Design

# 5648 - VOLUMETRIC FLASKS

## Class A, Narrow Mouth, Amber, with Individual Calibration Certificate





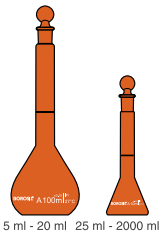


- Complies with DIN / ISO 1042, Accuracy as per class A
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions
- Calibrated & certified at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5648005 | 5 | 0.025 | 10 / 19# | 5 | **1195.00** |
| 5648006 | 10 | 0.025 | 10 / 19# | 5 | **1040.00** |
| 5648008 | 20 | 0.04 | 10 / 19 | 5 | **1040.00** |
| 5648009 | 25 | 0.04 | 10 / 19 | 5 | **965.00** |
| 5648012 | 50 | 0.06 | 12 / 21 | 10 | **915.00** |
| 5648016 | 100 | 0.10 | 14 / 23 | 10 | **900.00** |
| 5648020 | 200 | 0.15 | 14 / 23 | 10 | **1255.00** |
| 5648021 | 250 | 0.15 | 14 / 23 | 10 | **1235.00** |
| 5648024 | 500 | 0.25 | 19 / 26 | 10 | **1650.00** |
| 5648029 | 1000 | 0.40 | 24 / 29 | 10 | **2405.00** |
| 5648030 | 2000 | 0.60 | 29 / 32 | 2 | **3910.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- # Stopper size as per Borosil Design




## 5649 - VOLUMETRIC FLASKS

### Class B, Narrow Mouth, Amber

- Complies with DIN /ISO 1042, Accuracy as pe class B
- Supplied with interchangeable glass stopper
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions
- Calibrated at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5649005 | 5 | 0.05 | 10 / 19# | 10 | **475.00** |
| 5649006 | 10 | 0.05 | 10 / 19# | 10 | **450.00** |
| 5649008 | 20 | 0.08 | 10 / 19 | 10 | **450.00** |
| 5649009 | 25 | 0.08 | 10 / 19 | 10 | **450.00** |
| 5649012 | 50 | 0.12 | 12 / 21 | 10 | **475.00** |
| 5649016 | 100 | 0.20 | 14 / 23 | 10 | **535.00** |
| 5649020 | 200 | 0.30 | 14 / 23 | 10 | **565.00** |
| 5649021 | 250 | 0.30 | 14 / 23 | 10 | **575.00** |
| 5649024 | 500 | 0.50 | 19 / 26 | 10 | **865.00** |
| 5649029 | 1000 | 0.80 | 24 / 29 | 10 | **1415.00** |
| 5649030 | 2000 | 1.20 | 29 / 32 | 2 | **2890.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- Certified and Calibrated at 27°C
- # Stopper size as per Borosil Design






## 5650 - VOLUMETRIC FLASKS

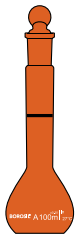
### For Sugar Estimation, Clear

- Complies with BS 675
- Supplied without stopper
- A two mark flask designed for the analysis of sugar solutions. The two graduation marks provide dilution of 1 in 10

| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 5650016 | 100 / 110 | 0.15 | 20 | **450.00** |

# 5653 - VOLUMETRIC FLASKS

## Class A, Wide Mouth, Amber, with Individual Calibration Certificate





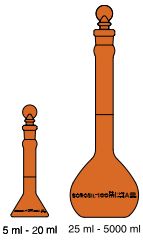

- Complies with DIN / ISO 1042, Accuracy as per class A
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions
- Specially designed wide mouth for testing bigger diameter tablet without making it in powder form
- Calibrated & certified at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5653005 | 5 | 0.04 | 12 / 21# | 5 | **1175.00** |
| 5653006 | 10 | 0.04 | 12 / 21# | 5 | **1030.00** |
| 5653008 | 20 | 0.06 | 12 / 21 | 5 | **1050.00** |
| 5653009 | 25 | 0.06 | 12 / 21 | 5 | **1150.00** |
| 5653A09 | 25* | 0.06 | 14 / 23 | 5 | **1150.00** |
| 5653012 | 50 | 0.10 | 14 / 23 | 10 | **1090.00** |
| 5653016 | 100* | 0.10 | 19 / 26 | 10 | **1190.00** |
| 5653020 | 200* | 0.15 | 19 / 26 | 10 | **1525.00** |
| 5653021 | 250* | 0.15 | 19 / 26 | 10 | **2305.00** |
| 5653024 | 500 | 0.25 | 24 / 29 | 10 | **2370.00** |
| 5653029 | 1000 | 0.60 | 29 / 32 | 10 | **2480.00** |

- * Not covered in the standards
- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- # 5 ml & 10 ml (# Stopper size as per borosil design)

# 5655 - VOLUMETRIC FLASKS

## ASTM, Narrow Mouth, Amber, with Individual Calibration Certificate





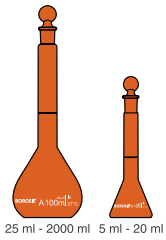


- Complies fully with ASTM E 288 standards - For both dimensions as well as tolerance
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions
- Calibrated & certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5655005 | 5 | 0.02 | 9 | 5 | **1340.00** |
| 5655006 | 10 | 0.02 | 9 | 5 | **1175.00** |
| 5655008 | 20 | 0.03 | 9 | 5 | **1175.00** |
| 5655009 | 25 | 0.03 | 9 | 5 | **1080.00** |
| 5655012 | 50 | 0.05 | 9 | 10 | **1040.00** |
| 5655016 | 100 | 0.08 | 13 | 10 | **1015.00** |
| 5655020 | 200 | 0.10 | 16 | 10 | **1435.00** |
| 5655021 | 250 | 0.12 | 16 | 10 | **1440.00** |
| 5655024 | 500 | 0.20 | 19 | 10 | **1895.00** |
| 5655029 | 1000 | 0.30 | 22 | 10 | **2765.00** |
| 5655030 | 2000 | 0.50 | 27 | 2 | **4455.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- For Stopper dimensions refer page no. 36




# 5655D - VOLUMETRIC FLASKS

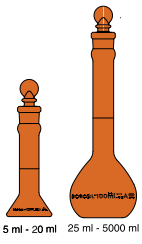
## Class A, USP, Narrow Mouth, Amber, with Individual Calibration Certificate

- Tolerance complies to ASTM E288 standards and dimensions as per ISO 1042 standards
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions
- Calibrated & certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5655005D | 5 | 0.02 | 10 / 19# | 5 | **1340.00** |
| 5655006D | 10 | 0.02 | 10 / 19# | 5 | **1175.00** |
| 5655008D | 20 | 0.03 | 10 / 19 | 5 | **1175.00** |
| 5655009D | 25 | 0.03 | 10 / 19 | 5 | **1080.00** |
| 5655012D | 50 | 0.05 | 12 / 21 | 10 | **1040.00** |
| 5655016D | 100 | 0.08 | 14 / 23 | 10 | **1015.00** |
| 5655020D | 200 | 0.10 | 14 / 23 | 10 | **1435.00** |
| 5655021D | 250 | 0.12 | 14 / 23 | 10 | **1440.00** |
| 5655024D | 500 | 0.20 | 19 / 26 | 10 | **1895.00** |
| 5655029D | 1000 | 0.30 | 24 / 29 | 10 | **2765.00** |
| 5655030D | 2000 | 0.50 | 29 / 32 | 2 | **4455.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- # 5 ml & 10 ml stopper size not as per standards and kept wide mouth for convenient pipetting




# 5657 - VOLUMETRIC FLASKS

## ASTM, Wide Mouth, Amber, with Individual Calibration Certificate

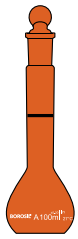
- Complies fully with ASTM E 288 standards - For both dimensions as well as tolerance
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions
- Specially designed wide mouth for testing bigger diameter tablets without making it in powder form
- Calibrated & certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5657005 | 5 | 0.08 | 13 | 5 | **1300.00** |
| 5657006 | 10 | 0.08 | 13 | 5 | **1125.00** |
| 5657008 | 20 | 0.08 | 13 | 5 | **1125.00** |
| 5657009 | 25 | 0.08 | 13 | 5 | **1220.00** |
| 5657012 | 50 | 0.08 | 13 | 10 | **1195.00** |
| 5657016 | 100 | 0.10 | 16 | 10 | **1260.00** |
| 5657020 | 200 | 0.20 | 19 | 10 | **1485.00** |
| 5657021 | 250 | 0.20 | 19 | 10 | **1610.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- For Stopper dimensions refer page no. 36

# 5657D - VOLUMETRIC FLASKS

## Class A, USP, Wide Mouth, Amber, with Individual Calibration Certificate






- Tolerance complies to ASTM E288 standards and dimensions as per ISO 1042 standards
- Supplied with Interchangeable Solid Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions
- Specially designed wide mouth for testing bigger diameter tablets without making it in powder form
- Calibrated & certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 5657005D | 5 | 0.08 | 12 / 21# | 5 | **1300.00** |
| 5657006D | 10 | 0.08 | 12 / 21# | 5 | **1125.00** |
| 5657008D | 20 | 0.08 | 12 / 21 | 5 | **1125.00** |
| 5657009D | 25 | 0.08 | 12 / 21 | 5 | **1220.00** |
| 5657012D | 50 | 0.08 | 14 / 23 | 10 | **1195.00** |
| 5657016D | 100 | 0.10 | 19 / 26 | 10 | **1260.00** |
| 5657020D | 200 | 0.20 | 19 / 26 | 10 | **1485.00** |
| 5657021D | 250 | 0.20 | 19 / 26 | 10 | **1610.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- # Stopper size as per Borosil Design

# 2020 - VOLUMETRIC FLASKS

## NABL Certified, Class A, Clear, with Individual Calibration Certificate







- Complies with DIN / ISO 1042, Accuracy as per class A
- Supplied with Interchangeable Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber enamel inscriptions
- Calibrated & certified at 27°C

| Product Code | Capacity ml | Tolerance ± ml | New Stopper Size | New Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2020001 | 1 | 0.025 | 7 / 16 | 1 | **2485.00** |
| 2020002 | 2 | 0.025 | 7 / 16 | 1 | **2485.00** |
| 2020005 | 5 | 0.025 | 10 / 19 # | 1 | **2210.00** |
| 2020006 | 10 | 0.025 | 10 / 19 # | 1 | **1915.00** |
| 2020008 | 20 | 0.04 | 10 / 19 | 1 | **1915.00** |
| 2020009 | 25 | 0.04 | 10 / 19 | 1 | **1780.00** |
| 2020012 | 50 | 0.06 | 12 / 21 | 1 | **1780.00** |
| 2020016 | 100 | 0.10 | 14 / 23 | 1 | **1835.00** |
| 2020020 | 200 | 0.15 | 14 / 23 | 1 | **2335.00** |
| 2020021 | 250 | 0.15 | 14 / 23 | 1 | **2365.00** |
| 2020024 | 500 | 0.25 | 19 / 26 | 1 | **3150.00** |
| 2020029 | 1000 | 0.40 | 24 / 29 | 1 | **4530.00** |
| 2020030 | 2000 | 0.60 | 29 / 32 | 1 | **7330.00** |

- 1 ml to 20 ml supplied with trapezoidal shape for better stability
- Certified and Calibrated at 27°C
- Volumetric flasks with old stopper sizes - Available till stocks last
- # Stopper size as per Borosil Design







## 2021 - VOLUMETRIC FLASKS

### NABL Certified, Class A, Amber, with Individual Calibration Certificate

- Complies with DIN / ISO 1042, Accuracy as per class A
- Supplied with Interchangeable Glass Stopper
- Each flask is marked with individual serial number and supplied with certificate of calibration traceable to National standards
- White enamel inscriptions
- Calibrated & certified at 27°C

| Product Code | Capacity ml | Tolerance ± ml | New Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2021005 | 5 | 0.025 | 10 / 19* | 1 | **2400.00** |
| 2021006 | 10 | 0.025 | 10 / 19* | 1 | **2095.00** |
| 2021008 | 20 | 0.04 | 10 / 19* | 1 | **2095.00** |
| 2021009 | 25 | 0.04 | 10 / 19 | 1 | **1895.00** |
| 2021012 | 50 | 0.06 | 12 / 21 | 1 | **2035.00** |
| 2021016 | 100 | 0.10 | 14 / 23 | 1 | **2105.00** |
| 2021020 | 200 | 0.15 | 14 / 23 | 1 | **2505.00** |
| 2021021 | 250 | 0.15 | 14 / 23 | 1 | **2785.00** |
| 2021024 | 500 | 0.25 | 19 / 26 | 1 | **3475.00** |
| 2021029 | 1000 | 0.40 | 24 / 29 | 1 | **5135.00** |
| 2021030 | 2000 | 0.60 | 29 / 32 | 1 | **8065.00** |

- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- # Stopper size as per Borosil Design



## 8100 - Glass Stoppers

### ISO / DIN, Penny head, Clear

| Product Code | Stopper Number | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| ISO / DIN Standard (Long Neck) | | | | |
| 8100A10 | – | 10 / 19 | 20 | **110.00** |
| 8100A12 | – | 12 / 21 | 20 | **115.00** |
| 8100A14 | – | 14 / 23 | 20 | **115.00** |
| 8100A19 | – | 19 / 26 | 20 | **135.00** |
| 8100A24 | – | 24 / 29 | 20 | **255.00** |
| 8100A29 | – | 29 / 32 | 20 | **315.00** |
| 8100A34 | – | 34 / 35 | 20 | **330.00** |



## 8110 - Glass Stoppers

### ASTM, Penny head, Clear

| Product Code | Stopper Number | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| ASTM Standard (Short Neck) | | | | |
| 8110008 | # 8 | 8.25 / 10 | 20 | **110.00** |
| 8110009 | # 9 | 9.4 / 14 | 20 | **125.00** |
| 8110013 | # 13 | 13.4 / 14 | 20 | **135.00** |
| 8110016 | # 16 | 16.5 / 15 | 20 | **255.00** |
| 8110019 | # 19 | 19.7 / 17 | 20 | **315.00** |
| 8110022 | # 22 | 22.05 / 20.5 | 20 | **330.00** |
| 8110027 | # 27 | 27.15 / 21.5 | 20 | **345.00** |

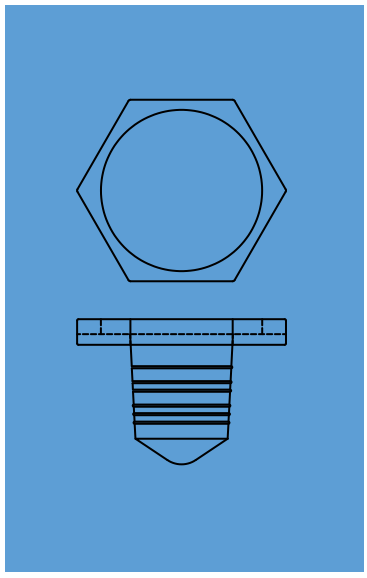
HSN Code : 70179090

## 8300 - Polypropylene (PP) Stoppers

- Flat head, ISO standard

| Product Code | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 8300007 | 7 / 16 | 20 | **50.00** |
| 8300A10 | 10 / 19 | 20 | **55.00** |
| 8300012 | 12 / 21 | 20 | **60.00** |
| 8300A14 | 14 / 23 | 20 | **65.00** |
| 8300A19 | 19 / 26 | 20 | **75.00** |
| 8300A24 | 24 / 29 | 20 | **95.00** |
| 8300A29 | 29 / 32 | 20 | **125.00** |
| 8300A34 | 34 / 35 | 20 | **140.00** |

HSN Code : 39235010



## 8400 - Glass Stoppers

### ISO / DIN, Penny head, Amber

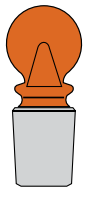
| Product Code | Stopper Number | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| ISO / DIN Standard (Long Neck) | | | | |
| 8400A10 | – | 10 / 19 | 20 | **135.00** |
| 8400A12 | – | 12 / 21 | 20 | **175.00** |
| 8400A14 | – | 14 / 23 | 20 | **175.00** |
| 8400A19 | – | 19 / 26 | 20 | **200.00** |
| 8400A24 | – | 24 / 29 | 20 | **310.00** |
| 8400A29 | – | 29 / 32 | 20 | **360.00** |
| 8400A34 | – | 34 / 35 | 20 | **395.00** |

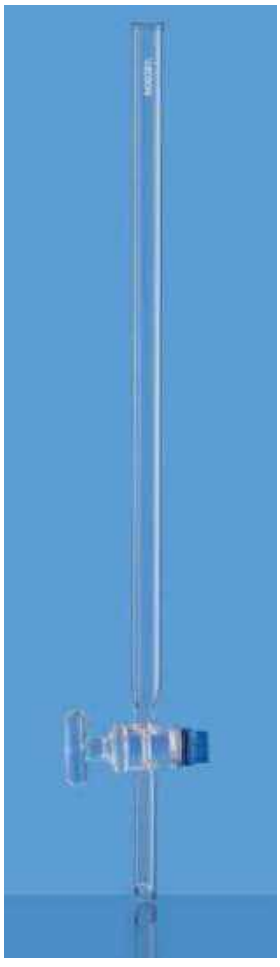


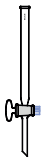
## 8410 - Glass Stoppers

### ASTM, Penny head, Amber

| Product Code | Stopper Number | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| ASTM Standard | | | | |
| 8410008 | # 8 | 8.25 / 10 | 20 | **135.00** |
| 8410009 | # 9 | 9.4 / 14 | 20 | **145.00** |
| 8410013 | # 13 | 13.4 / 14 | 20 | **170.00** |
| 8410016 | # 16 | 16.5 / 15 | 20 | **310.00** |
| 8410019 | # 19 | 19.7 / 17 | 20 | **380.00** |
| 8410022 | # 22 | 22.05 / 20.5 | 20 | **400.00** |
| 8410027 | # 27 | 27.15 / 21.5 | 20 | **415.00** |







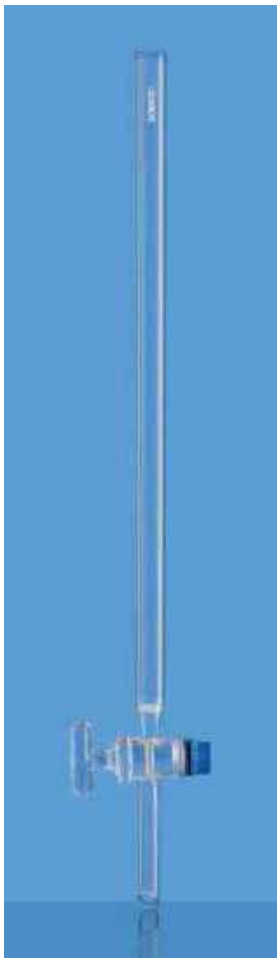
## 6100 - CHROMATOGRAPHY COLUMNS

### Plain With Glass Stopcock

- Designed with straight bore stopcock that increases the life as compared to PTFE key stopcocks
- The glass stopcock enhances control and facilities smoother action
- Generally used for purification of individual compounds from mixtures of compounds

| Product Code | Length mm | Bore Dia mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6100060 | 200 | 10 | 5 | **485.00** |
| 6100061 | 300 | 10 | 5 | **525.00** |
| 6100062 | 300 | 18 | 5 | **570.00** |
| 6100063 | 450 | 30 | 5 | **720.00** |
| 6100064 | 500 | 10 | 5 | **565.00** |
| 6100065 | 500 | 18 | 5 | **595.00** |
| 6100066 | 600 | 30 | 5 | **950.00** |
| 6100067 | 600 | 40 | 5 | **1240.00** |
| 6100068 | 1000 | 40 | 4 | **2535.00** |

**Note : The Columns with Boroflow & PTFE stopcock will be made available on request**





## 6101 - CHROMATOGRAPHY COLUMNS

### With Sintered Disc & Glass Stopcock

- Designed with straight bore stopcock that increases the life as compared to PTFE key stopcocks
- The glass stopcock enhances control and facilities smoother action
- Columns are added with a Sintered Disc for good results
- Generally used for purification of individual compounds from mixtures of compounds
- Columns are added with a Sintered Disc (Grade I) for good result

| Product Code | Length mm | Bore Dia mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6101060 | 200 | 10 | 5 | **805.00** |
| 6101061 | 300 | 10 | 5 | **825.00** |
| 6101062 | 300 | 18 | 5 | **1025.00** |
| 6101063 | 450 | 30 | 5 | **1270.00** |
| 6101064 | 500 | 10 | 5 | **950.00** |
| 6101065 | 500 | 18 | 5 | **1115.00** |
| 6101066 | 600 | 30 | 5 | **1315.00** |
| 6101067 | 600 | 40 | 5 | **2175.00** |
| 6101068 | 1000 | 40 | 4 | **2955.00** |

**Note : The Columns with Boroflow & PTFE stopcock will be made available on request**

BOROSIL®

## **Accurate and Consistent Filtration,**
ALWAYS with BOROSIL FILTER PAPERS




borosilfilters.com

# Funnels

Funnels may be used for separating solids from liquids, liquids from liquids and occasionally, for pouring something into a container.

BOROSIL® brand Funnels are available in a comprehensive range for a variety of such applications. Sintered Glass Funnels are also available.

Separating Funnels come in globe, pear and cylindrical shapes with ground glass stopcocks and interchangeable stoppers. These Funnels are made of specially moulded blanks. Stopcock bores, body openings and stems are carefully aligned to




## Made from 3.3 Low Expansion Borosilicate Glass

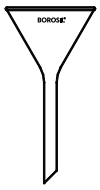
USP TYPE I

TYPE I ASTM E438 CLASS A

ISO 3585

## 6140 - GLASS FILTER FUNNEL

### Short Stem



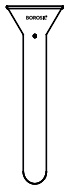
- Complies with IS 1591, DIN / ISO 4798
- Designed with a 60° bowl angle to ensure precise fitting of the filter paper
- High thermal shock resistance and chemical resistance
- Generally used for filtering and decanting liquids of varied densities



| Product Code | Diameter mm | Stem | | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| | | OD | Length | | |
| 6140057 | 25* | 6 | 25 | 30 | **110.00** |
| 6140058 | 35 | 6 | 35 | 30 | **140.00** |
| 6140065 | 50* | 8 | 50 | 20 | **145.00** |
| 6140069 | 65* | 8 | 65 | 20 | **175.00** |
| 6140071 | 75 | 8 | 75 | 20 | **165.00** |
| 6140077 | 100 | 10 | 100 | 40 | **225.00** |

- * Not covered in standard

## 6150 - FUNNEL TEST TUBES



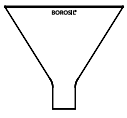
- Specially designed for soil testing laboratory



| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 6150007 | 15 | 10 | **225.00** |
| 6150010 | 30 | 10 | **275.00** |

## 6220 - POWDER FUNNEL

### With Stem



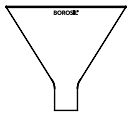
- Designed with a short wide stem to facilitate smooth flow
- Ideal for transferring powders



| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 6220080 | 125 | 30 | **495.00** |
| 6220081 | 150 | 20 | **525.00** |
| 6220087 | 200 | 4 | **1485.00** |
| 6220089 | 250 | 4 | **2040.00** |

## 6230 - POWDER FUNNEL

### Stem With Cone

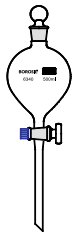


- Supplied with ground glass cone for easy fitting on flask
- Designed with a short wide stem to facilitate smooth flow
- Ideal for transferring powders



| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 6230080 | 125 | 20 | **740.00** |
| 6230081 | 150 | 20 | **850.00** |
| 6230087 | 200 | 4 | **1645.00** |
| 6230089 | 250 | 4 | **2470.00** |





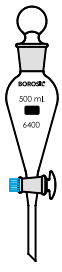
## 6340 - SEPARATING FUNNEL, GLOBE SHAPE

### With Glass Stopcock & I/C Glass Stopper

- Designed with globe shape and with a stem
- Generally used in the separation phase

| Product Code | Capacity ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6340017 | 125 | 19 / 26 | 10 | **1420.00** |
| 6340021 | 250 | 24 / 29 | 10 | **1555.00** |
| 6340024 | 500 | 24 / 29 | 10 | **1955.00** |
| 6340029 | 1000 | 29 / 32 | 5 | **2470.00** |
| 6340030 | 2000 | 29 / 32 | 10 | **4170.00** |
| 6340033 | 5000 | 34 / 35 | 1 | **9460.00** |





## 6400 - SEPARATING FUNNEL, PEAR SHAPE

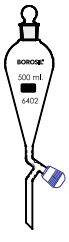
### With Glass Stopcock & I/C Glass Stopper

- Complies with IS 1575, DIN / ISO 4800
- Designed with pear shape and with a stem
- Generally used in the separation phase

| Product Code | Capacity ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6400013 | 60* | 14 / 23 | 10 | **1210.00** |
| 6400017 | 125* | 19 / 26 | 10 | **1315.00** |
| 6400021 | 250 | 24 / 29 | 10 | **1385.00** |
| 6400024 | 500 | 24 / 29 | 10 | **1915.00** |
| 6400029 | 1000 | 29 / 32 | 10 | **2505.00** |
| 6400030 | 2000 | 29 / 32 | 10 | **4555.00** |

* Not covered in standards.





## 6402 - SEPARATING FUNNEL, PEAR SHAPE

### With Boroflo Stopcock And I/C Glass Stopper

- Complies with IS 1575, DIN / ISO 4800
- Designed with pear shape and with a stem
- Generally used in the separation phase

| Product Code | Capacity ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6402013 | 60* | 14 / 23 | 10 | **1080.00** |
| 6402017 | 125* | 19 / 26 | 10 | **1170.00** |
| 6402021 | 250 | 24 / 29 | 10 | **1295.00** |
| 6402024 | 500 | 24 / 29 | 10 | **1745.00** |
| 6402029 | 1000 | 29 / 32 | 10 | **2290.00** |
| 6402030 | 2000 | 29 / 32 | 10 | **4025.00** |

* Not covered in standards.

## 6403 - SEPARATING FUNNEL, PEAR SHAPE,
### With PTFE Stopcock And I/C Glass Stopper





- Complies with IS 1575, DIN / ISO 4800
- Designed with pear shape and with a stem
- Generally used in the separation phase

| Product Code | Capacity ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6403017 | 125* | 19 / 26 | 10 | **1530.00** |
| 6403021 | 250 | 24 / 29 | 10 | **1670.00** |
| 6403024 | 500 | 24 / 29 | 10 | **2175.00** |
| 6403029 | 1000 | 29 / 32 | 10 | **2595.00** |
| 6403030 | 2000 | 29 / 32 | 10 | **4825.00** |

* Not covered in standards.

## 6405 - PRESSURE EQUILISING CYLINDRICAL FUNNEL
### With PTFE Stopcock





- Supplied with polypropylene stopper
- Equipped with totally grease free and self lubricating PTFE stopcock

| Product Code | Capacity ml | Socket | Cone | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 6405012 | 50 | 19 / 26 | 19 / 26 | **5** | **1460.00** |
| 6405016 | 100 | 19 / 26 | 19 / 26 | **5** | **1755.00** |
| 6405021 | 250 | 24 / 29 | 24 / 29 | **5** | **2005.00** |
| 6405024 | 500 | 24 / 29 | 24 / 29 | **5** | **3110.00** |

## 6408 - DROPPING FUNNEL,
### Graduated With Glass Stopcock





- Complies with IS 1575, DIN / ISO 4800
- Supplied with glass stopcock

| Product Code | Capacity ml | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6408012 | 50 | 14 / 23 | 5 | **925.00** |
| 6408016 | 100 | 19 / 26 | 5 | **1005.00** |
| 6408021 | 250 | 24 / 29 | 5 | **1160.00** |
| 6408024 | 500 | 24 / 29 | 5 | **1555.00** |
| 6408029 | 1000 | 29 /32 | 5 | **2580.00** |

* Not covered in standards.







## 6560 - PLAIN SHANK SINGLE CONE

- Complies to DIN 12249
- Joints are made with precision grinding

| Product Code | Cone Joint Size | Total Length | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6560010 | 10 / 19 | 120 | 5 | **175.00** |
| 6560012 | 12 / 21 | 120 | 5 | **185.00** |
| 6560014 | 14 / 23 | 120 | 5 | **205.00** |
| 6560019 | 19 / 26 | 125 | 5 | **245.00** |
| 6560024 | 24 / 29 | 135 | 5 | **295.00** |
| 6560029 | 29 / 32 | 135 | 5 | **375.00** |
| 6560034 | 34 / 35 | 150 | 5 | **525.00** |
| 6560040 | 40 / 38* | 150 | 5 | **600.00** |
| 6560045 | 45 / 40* | 150 | 5 | **715.00** |
| 6560050 | 50 / 42* | 150 | 5 | **825.00** |
| 6560055 | 55 / 44 | 150 | 5 | **975.00** |

* Not covered in standard









## 6561- PLAIN SHANK DOUBLE CONE

- Complies to DIN 12249
- Joints are made with precision grinding

| Product Code | Cone Joint Size | Total Length | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 6561010 | 10 / 19 | 125 | 5 | **330.00** |
| 6561012 | 12 / 21 | 135 | 5 | **380.00** |
| 6561014 | 14 / 23 | 135 | 5 | **465.00** |
| 6561019 | 19 / 26 | 140 | 5 | **525.00** |
| 6561024 | 24 / 29 | 170 | 5 | **630.00** |
| 6561029 | 29 / 32 | 170 | 5 | **865.00** |
| 6561034 | 34 / 35 | 180 | 5 | **1015.00** |
| 6561040 | 40 / 38 | 185 | 5 | **1210.00** |

## 6580 - PLAIN SHANK SINGLE SOCKET

- Complies to DIN 12249
- Joints are made with precision grinding






| Product Code | Cone Joint Size | Total Length | Quantity Per Case | Price / Piece |
|---|---|---|---|---|
| 6580010 | 10 / 19 | 120 | 5 | 185.00 |
| 6580012 | 12 / 21 | 120 | 5 | 215.00 |
| 6580014 | 14 / 23 | 120 | 5 | 240.00 |
| 6580019 | 19 / 26 | 125 | 5 | 245.00 |
| 6580024 | 24 / 29 | 135 | 5 | 305.00 |
| 6580029 | 29 / 32 | 135 | 5 | 375.00 |
| 6580034 | 34 / 35 | 150 | 5 | 525.00 |
| 6580040 | 40 / 38 | 150 | 5 | 640.00 |
| 6580045 | 45 / 40 | 150 | 5 | 825.00 |
| 6580050 | 50 / 42 | 150 | 5 | 940.00 |
| 6580055 | 55 / 44 | 150 | 5 | 1165.00 |

## 6581 - PLAIN SHANK DOUBLE SOCKET

- Complies to DIN 12249
- Joints are made with precision grinding

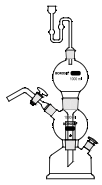





| Product Code | Cone Joint Size | Total Length | Quantity Per Case | Price / Piece |
|---|---|---|---|---|
| 6581010 | 10 / 19 | 125 | 5 | 305.00 |
| 6581012 | 12 / 21 | 135 | 5 | 360.00 |
| 6581014 | 14 / 23 | 135 | 5 | 420.00 |
| 6581019 | 19 / 26 | 140 | 5 | 465.00 |
| 6581024 | 24 / 29 | 170 | 5 | 525.00 |
| 6581029 | 29 / 32 | 170 | 5 | 630.00 |
| 6581034 | 34 / 35 | 180 | 5 | 865.00 |
| 6581040 | 40 / 38 | 185 | 5 | 940.00 |

# Gas Generator





## 6550 - GAS GENERATOR APPARATUS (KIPPS)

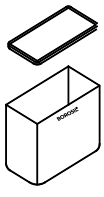
- Used to produce common gases
- Simple to operate and assemble
- Quick charging

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 6550024 | 500 | 1 | **11645.00** |
| 6550029 | 1000 | 1 | **14875.00** |



# Museum Jar





## 6910 - RECTANGULAR MUSEUM JAR

### With Lid

- Jar made of 3.3 low expansion borosilicate glass and lid made from sodalime glass
- Specially blown to give sturdiness and long life
- Top edges are flat ground
- Not recommended for use over a direct flame or on a hot plate
- For storage and display of preserved organs and organisms in Museums, Hospitals and Medical Colleges

| Product Code | Approx Height x Length x Breadth mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 6910M41 | 200 x 125 x 125 | 1 | **10185.00** |
| 6910M42 | 200 x 150 x 100 | 1 | **10785.00** |
| 6910M43 | 220 x 195 x 80 | 1 | **12000.00** |
| 6910M44 | 250 x 165 x 140 | 1 | **12560.00** |
| 6910M45 | 250 x 250 x 120 | 1 | **15115.00** |
| 6910M46 | 360 x 150 x 100 | 1 | **25330.00** |







## 6947 - REACTION KETTLES ASSEMBLY

### Resin Reaction

- The wide mouth enables easy access for cleaning the interior
- Flanges of the covers and base are finely ground to ensure a tight seal
- Equipped with interchangeable covers with four openings
- Designed for viscous reaction materials

| Product Code | Capacity ml | Body Dia mm | Height mm | Quantity Per Case Set | Price / Piece ₹ |
|---|---|---|---|---|---|
| 6947024 | 500 | 100 | 150 | 1 | **14980.00** |
| 6947029 | 1000 | 110 | 175 | 1 | **15620.00** |
| 6947030 | 2000 | 150 | 185 | 1 | **19040.00** |
| 6947032 | 4000 | 150 | 340 | 1 | **22890.00** |

The 500 ml and 1000 ml kettles have interchangeable covers with four openings to accommodate 24 / 29 interchangeable joints. Kettles of 2000 ml and 4000 ml capacity have interchangeable covers with openings to accommodate three 24 / 29 interchangeable joints and one 34 / 35 interchangeable joint.







## 6948 - BOTTOM FOR KETTLE REACTION ASSEMBLY

### Only for Kettles Cat no. 6947

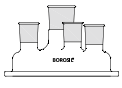
The base has a wide mouth that enables easy access for cleaning the interior

Flanges of the base are finely ground to ensure a tight seal

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 6948024 | 500 | 2 | **7235.00** |
| 6948029 | 1000 | 2 | **8040.00** |
| 6948030 | 2000 | 2 | **10435.00** |
| 6948032 | 4000 | 2 | **15250.00** |







## 6949 - COVER FOR KETTLE REACTION ASSEMBLY

### Only for Kettles Cat No. 6947

- The covers have openings with interchangeable joints to facilitate rapid assembly with Condensers and Stirrers
- Flanges of the covers are finely ground to ensure a tight seal

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 6949041 | 500 / 1000 | 2 | **11515.00** |
| 6949042 | 2000 / 4000 | 2 | **13370.00** |

The 500 ml and 1000 ml kettles have interchangeable covers with four openings to accommodate 24 / 29 interchangeable joints. Kettles of 2000 ml and 4000 ml capacity have interchangeable covers with openings to accommodate three 24 / 29 interchangeable joints and one 34 / 35 interchangeable joint.

# Pipettes

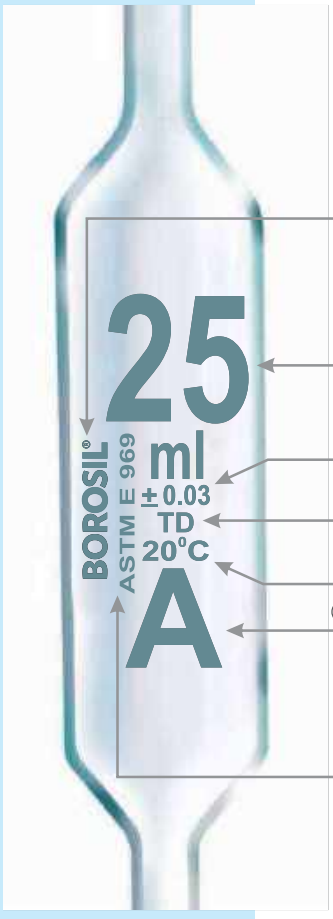
**BOROSIL®** Pipettes are made from heavy walled, machine drawn borosilicate glass tubing, of precise bore sizes, to provide highest level of accuracy. The mouthpiece of pipettes, of capacities >5ml are tooled with uniform OD for easy aspiration of liquids. Tooling imparts additional strength to the pipettes.

- Individually calibrated by automatic calibration process
- Available in both Class A and Class B tolerances
- Individual calibration certificate provided for Class A pipettes
- Graduation markings made using finest quality white enamel or amber ink to ensure maximum durability
- Color coded in accordance with ISO standards to facilitate easy identification
- Chip resistant bevelled ground edges
- Pipettes can be autoclaved or flame sterilized as per requirement

## Made from 3.3 Low Expansion Borosilicate Glass

USP TYPE I | TYPE I ASTM E438 CLASS A | ISO 3585






Manufacturer

Nominal Capacity

Tolerance

Calibration (TD= to deliver)

Ref Temperature

Class A Certified ( Quality Grade)

Standards



Tips are carefully tooled to ensure proper flow rates

Tip edges are fire polished



All pipettes are colour coded for quick identification



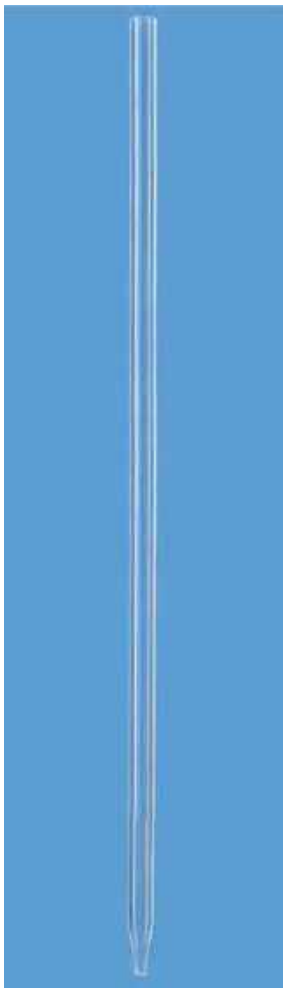

**Mohr Type**
Delivery from zero mark to the last graduation mark




**Serological Type**
Delivery from zero mark to the tip

Two Rings

Two rings at the top indicate that pipettes are calibrated to deliver their total capacity

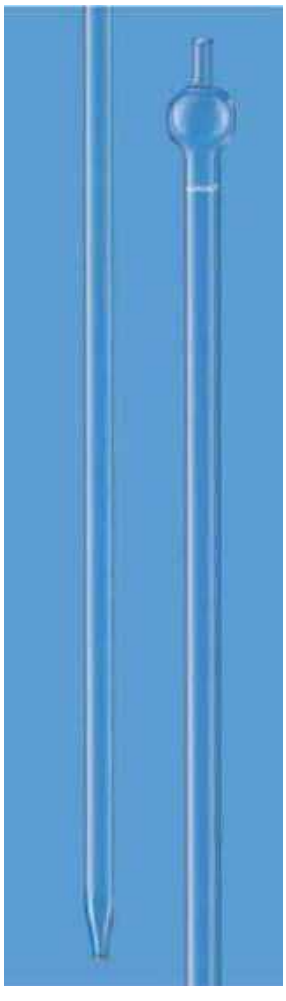


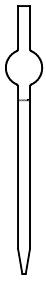


## 7040 - ARTIFICIAL INSEMINATION PIPETTES

- Sturdy, strong and safe for repeated use
- It can be sterilised and cleaned easily
- Tapered tip for efficient use
- Ideal for artificial insemination in cattles

| Product Code | Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 7040162 | 450 | 60 | **125.00** |





## 7041 - DRUM SAMPLING PIPETTE

| Product Code | Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 7041041 | 1000 | 4 | **550.00** |



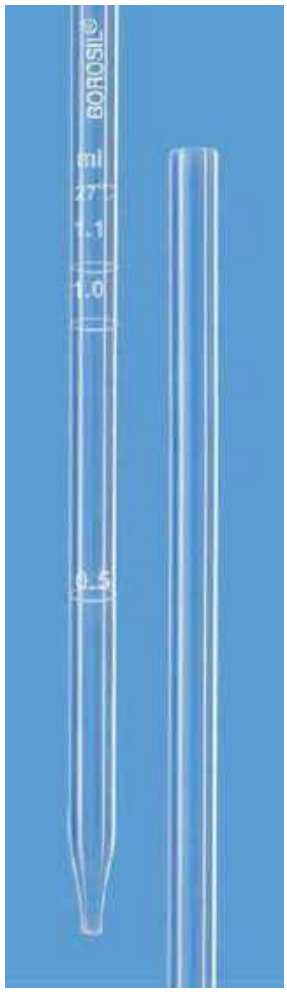


an ISO 9001: 2015 certified company | PRICES EXCLUSIVE OF TAXES | For products listed on this page use HSN code 70179010

## 7056 - MILK/BACTERIOLOGICAL PIPETTES

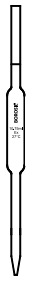


- Complies with IS 2025
- Available in two capacities - 11ml and 2.2 ml
- 1.1 mlis graduated at 0.5 to 11 ml
- 2.2 ml is graduated at 1.0, 2.0, 2.1 and 2.2 ml
- Used for the bacteriological examination of milk in dairy industries




| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7056101 | 11 | 0.025 | 10 | **225.00** |
| 7056102 | 2.2 | 0.040 | 10 | **250.00** |

## 7057 - GERBER MILK PIPETTES



- Complies with IS 1223 ( Part II)
- Sturdy, designed to last long
- Used for testing milk by the Gerber method
- Gerber Milk Pipettes are one-mark transfer Pipettes for measuring 10.75 ml
- They can be also be used in rural Milk Collection Centres




| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7057P10 | 10.75 | 0.03 | 10 | **240.00** |

## 7058 - GERBER MILK PIPETTES
### with Certificate

- Provided with calibration certificate

| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7058P10 | 10.75 | 0.015 | 10 | **500.00** |





## 7059 - MOHR PIPETTES

### Class A, with Individual Calibration Certificate

- Complies with IS, ISO 835, Type I
- Graduated for delivery from zero mark to the last graduation mark
- Supplied with individual calibration certificate showing actual volume dispensed and providing traceability to national standards
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Calibrated and certified at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance +/- ml | Quantity per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 7059P41 | 0.1 | 0.01 | 0.006 | 10 | **630.00** |
| 7059P42 | 0.2 | 0.01 | 0.006 | 10 | **630.00** |
| 7059P01 | 1 | 0.01 | 0.007 | 10 | **590.00** |
| 7059P11 | 1 | 0.10 | 0.007 | 10 | **520.00** |
| 7059P02 | 2 | 0.02 | 0.01 | 10 | **580.00** |
| 7059P22 | 2 | 0.10 | 0.01 | 10 | **540.00** |
| 7059P05 | 5 | 0.05 | 0.03 | 10 | **670.00** |
| 7059P55 | 5 | 0.10 | 0.03 | 10 | **630.00** |
| 7059P06 | 10 | 0.10 | 0.05 | 10 | **720.00** |
| 7059P09 | 25 | 0.20 | 0.10 | 10 | **850.00** |





## 7060 - MOHR PIPETTES

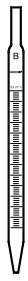
### Class B

- Complies with IS, ISO 835, Type I
- Graduated for delivery from zero mark to the last graduation mark
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Calibrated at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance +/- ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 7060P41 | 0.1 | 0.01 | 0.01 | 20 | **210.00** |
| 7060P42 | 0.2 | 0.01 | 0.01 | 20 | **200.00** |
| 7060P01 | 1 | 0.01 | 0.01 | 20 | **200.00** |
| 7060P11 | 1 | 0.10 | 0.01 | 20 | **185.00** |
| 7060P02 | 2 | 0.02 | 0.02 | 20 | **210.00** |
| 7060P22 | 2 | 0.10 | 0.02 | 20 | **200.00** |
| 7060P05 | 5 | 0.05 | 0.05 | 20 | **220.00** |
| 7060P55 | 5 | 0.10 | 0.05 | 20 | **210.00** |
| 7060P06 | 10 | 0.10 | 0.10 | 20 | **240.00** |
| 7060P09 | 25 | 0.20 | 0.20 | 20 | **375.00** |

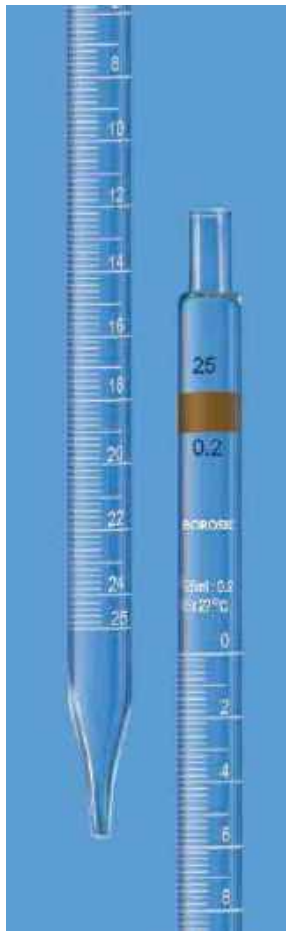
## 7062 - MOHR PIPETTES

### Class B, White Marking



- Complies with ISO 835
- Graduated for delivery from zero mark to the last graduation mark
- Graduation in white enamel for increased visibility against dark solutions
- Calibrated at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 7062P41 | 0.1 | 0.01 | 0.01 | 20 | **210.00** |
| 7062P42 | 0.2 | 0.01 | 0.01 | 20 | **200.00** |
| 7062P01 | 1 | 0.01 | 0.01 | 20 | **200.00** |
| 7062P11 | 1 | 0.10 | 0.01 | 20 | **185.00** |
| 7062P02 | 2 | 0.02 | 0.02 | 20 | **210.00** |
| 7062P22 | 2 | 0.10 | 0.02 | 20 | **200.00** |
| 7062P05 | 5 | 0.05 | 0.05 | 20 | **220.00** |
| 7062P55 | 5 | 0.10 | 0.05 | 20 | **210.00** |
| 7062P06 | 10 | 0.10 | 0.10 | 20 | **240.00** |
| 7062P09 | 25 | 0.20 | 0.20 | 20 | **375.00** |



## 7079 - SEROLOGICAL PIPETTES

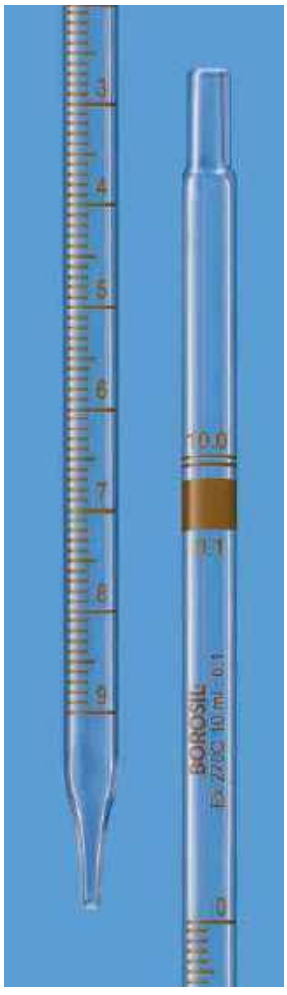
### Class A, With Individual Calibration Certificate



- Complies with IS, ISO 835, Type III total delivery
- These Pipettes are graduated to the tip
- Two rings at the top indicate that the Pipette is calibrated to deliver from any graduation line down to tip
- Supplied with individual calibration certificate showing actual volume dispensed and providing traceability to national standards
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Calibrated and certified at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 7079P41 | 0.1 | 0.01 | 0.006 | 10 | **630.00** |
| 7079P42 | 0.2 | 0.01 | 0.006 | 10 | **630.00** |
| 7079P01 | 1 | 0.01 | 0.007 | 10 | **715.00** |
| 7079P11 | 1 | 0.10 | 0.007 | 10 | **520.00** |
| 7079P02 | 2 | 0.02 | 0.01 | 10 | **580.00** |
| 7079P22 | 2 | 0.10 | 0.01 | 10 | **540.00** |
| 7079P05 | 5 | 0.05 | 0.03 | 10 | **670.00** |
| 7079P55 | 5 | 0.10 | 0.03 | 10 | **630.00** |
| 7079P06 | 10 | 0.10 | 0.05 | 10 | **720.00** |
| 7079P09 | 25 | 0.20 | 0.10 | 10 | **850.00** |



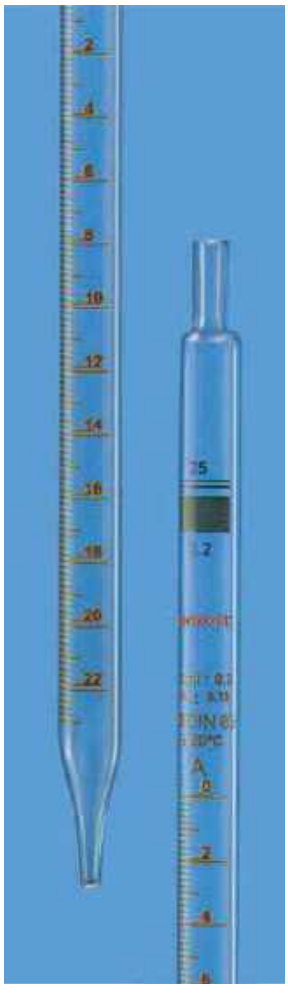




## 7080 - SEROLOGICAL PIPETTES
## Class B

- Complies with IS, ISO 835
- These Pipettes are graduated to the tip
- Two rings at the top indicate that the Pipette is calibrated to deliver from any graduation line down to tip
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Calibrated at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 7080P41 | 0.1 | 0.01 | 0.01 | 20 | **210.00** |
| 7080P42 | 0.2 | 0.01 | 0.01 | 20 | **200.00** |
| 7080P01 | 1 | 0.01 | 0.01 | 20 | **200.00** |
| 7080P11 | 1 | 0.10 | 0.01 | 20 | **185.00** |
| 7080P02 | 2 | 0.02 | 0.02 | 20 | **210.00** |
| 7080P22 | 2 | 0.10 | 0.02 | 20 | **200.00** |
| 7080P05 | 5 | 0.05 | 0.05 | 20 | **220.00** |
| 7080P55 | 5 | 0.10 | 0.05 | 20 | **210.00** |
| 7080P06 | 10 | 0.10 | 0.10 | 20 | **240.00** |
| 7080P09 | 25 | 0.20 | 0.20 | 20 | **375.00** |





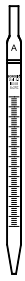
## 7081 - SEROLOGICAL PIPETTES
### Class A, USP, With Individual Calibration Certificate

- Complies with ASTM 1293 - 02
- These pipettes are graduated to the tip
- Two rings at the top indicate that the pipette is calibrated to deliver from any graduation line down to tip
- Supplied with individual calibration certificate showing actual volume dispensed and providing traceability to national standards
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Calibrated and certified at 20°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 7081P01 | 1 | 0.01 | 0.01 | 10 | **565.00** |
| 7081P11 | 1 | 0.10 | 0.01 | 10 | **530.00** |
| 7081P22 | 2 | 0.10 | 0.01 | 10 | **565.00** |
| 7081P55 | 5 | 0.10 | 0.02 | 10 | **675.00** |
| 7081P06 | 10 | 0.10 | 0.03 | 10 | **735.00** |
| 7081P09 | 25 | 0.10 | 0.05 | 10 | **865.00** |

# 7082 - SEROLOGICAL PIPETTES

## Class B, White marking



- Complies with IS, ISO 835
- These Pipettes are graduated to the tip
- Two rings at the top indicate that the Pipette is calibrated to deliver from any graduation line down to tip
- Graduation in white enamel for increased visibility against dark solutions
- Calibrated at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 7082P41 | 0.1 | 0.01 | 0.01 | 20 | **210.00** |
| 7082P42 | 0.2 | 0.01 | 0.01 | 20 | **200.00** |
| 7082P01 | 1 | 0.01 | 0.01 | 20 | **200.00** |
| 7082P11 | 1 | 0.10 | 0.01 | 20 | **185.00** |
| 7082P02 | 2 | 0.02 | 0.02 | 20 | **210.00** |
| 7082P22 | 2 | 0.10 | 0.02 | 20 | **200.00** |
| 7082P05 | 5 | 0.05 | 0.05 | 20 | **220.00** |
| 7082P55 | 5 | 0.10 | 0.05 | 20 | **210.00** |
| 7082P06 | 10 | 0.10 | 0.10 | 20 | **240.00** |
| 7082P09 | 25 | 0.20 | 0.20 | 20 | **375.00** |




# 7100 - VOLUMETRIC PIPETTES

## Class A, with Individual Calibration Certificate




- Complies with ISO 648
- Calibrated for delivery (TD, Ex)
- Each pipette coded with unique identification number (UID) and supplied with calibration certificate with traceability to national standards
- Generally used for accurate measurement and decanting of liquid
- Calibrated and certified at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7100001 | 1 | 0.008 | 10 | **410.00** |
| 7100002 | 2 | 0.01 | 10 | **415.00** |
| 7100005 | 5 | 0.015 | 10 | **465.00** |
| 7100006 | 10 | 0.02 | 10 | **560.00** |
| 7100008 | 20 | 0.03 | 10 | **730.00** |
| 7100009 | 25 | 0.03 | 10 | **775.00** |
| 7100012 | 50 | 0.05 | 10 | **880.00** |
| 7100016 | 100 | 0.08 | 10 | **1330.00** |









## 7101 - VOLUMETRIC PIPETTES

### Class A, ASTM with Individual Calibration Certificate

- Complies with ASTM E-969-02
- Calibrated for delivery (TD, Ex)
- Each pipette coded with unique identification number (UID) and supplied with calibration certificate with traceability to national standards
- Generally used for accurate measurement and decanting of liquid
- Calibrated and certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7101001 | 1 | 0.006 | 10 | **415.00** |
| 7101105 | 1.5* | 0.006 | 10 | **465.00** |
| 7101002 | 2 | 0.006 | 10 | **465.00** |
| 7101205 | 2.5* | 0.006 | 10 | **520.00** |
| 7101003 | 3 | 0.01 | 10 | **490.00** |
| 7101004 | 4 | 0.01 | 10 | **490.00** |
| 7101005 | 5 | 0.01 | 10 | **495.00** |
| 7101706 | 6 | 0.01 | 10 | **540.00** |
| 7101707 | 7 | 0.01 | 10 | **540.00** |
| 7101708 | 8 | 0.02 | 10 | **540.00** |
| 7101709 | 9 | 0.02 | 10 | **540.00** |
| 7101006 | 10 | 0.02 | 10 | **560.00** |
| 7101007 | 15 | 0.03 | 10 | **635.00** |
| 7101008 | 20 | 0.03 | 10 | **735.00** |
| 7101009 | 25 | 0.03 | 10 | **775.00** |
| 7101010 | 30 | 0.03 | 10 | **775.00** |
| 7101011 | 40 | 0.05 | 10 | **820.00** |
| 7101012 | 50 | 0.05 | 10 | **895.00** |
| 7101016 | 100 | 0.08 | 10 | **1345.00** |

* As per Borosil standard







## 7102 - VOLUMETRIC PIPETTES

### Class B

- Complies with ISO 648
- Calibrated for delivery (TD, Ex)
- Generally used for accurate measurement and decanting of liquid
- Calibrated at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7102001 | 1 | 0.015 | 10 | **200.00** |
| 7102002 | 2 | 0.02 | 10 | **210.00** |
| 7102003 | 3* | 0.02 | 10 | **210.00** |
| 7102004 | 4* | 0.02 | 10 | **210.00** |
| 7102005 | 5 | 0.03 | 10 | **220.00** |
| 7102706 | 6* | 0.03 | 10 | **235.00** |
| 7102707 | 7* | 0.03 | 10 | **235.00** |
| 7102708 | 8* | 0.04 | 10 | **235.00** |
| 7102709 | 9* | 0.04 | 10 | **235.00** |
| 7102006 | 10 | 0.04 | 10 | **255.00** |
| 7102007 | 15* | 0.06 | 10 | **285.00** |
| 7102008 | 20 | 0.06 | 10 | **295.00** |
| 7102009 | 25 | 0.06 | 10 | **310.00** |
| 7102010 | 30* | 0.06 | 10 | **295.00** |
| 7102011 | 40* | 0.1 | 10 | **325.00** |
| 7102012 | 50 | 0.1 | 10 | **360.00** |
| 7102016 | 100 | 0.15 | 10 | **515.00** |

* As per Borosil standard

# 7103 - VOLUMETRIC PIPETTES

## Class B, ASTM







- Complies with ASTM E-969-02
- Calibrated for delivery (TD, Ex)
- Generally used for accurate measurement and decanting of liquid
- Calibrated at 20°C

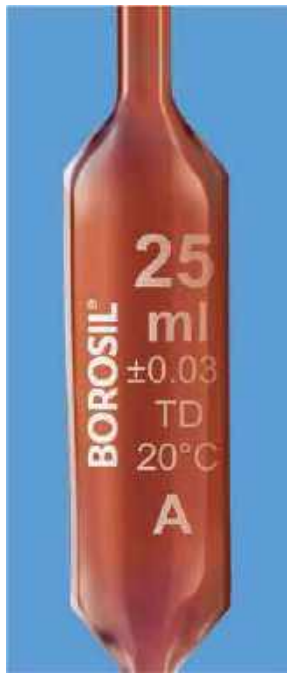
| Till stock lasts | | | | |
|---|---|---|---|---|
| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
| 7103001 | 1 | 0.012 | 10 | **210.00** |
| 7103002 | 2 | 0.012 | 10 | **220.00** |
| 7103003 | 3 | 0.02 | 10 | **210.00** |
| 7103004 | 4 | 0.02 | 10 | **220.00** |
| 7103005 | 5 | 0.02 | 10 | **220.00** |
| 7103706 | 6 | 0.03 | 10 | **235.00** |
| 7103707 | 7 | 0.03 | 10 | **225.00** |
| 7103708 | 8 | 0.04 | 10 | **235.00** |
| 7103709 | 9 | 0.04 | 10 | **225.00** |
| 7103006 | 10 | 0.04 | 10 | **255.00** |
| 7103007 | 15 | 0.06 | 10 | **285.00** |
| 7103008 | 20 | 0.06 | 10 | **295.00** |
| 7103009 | 25 | 0.06 | 10 | **310.00** |
| 7103010 | 30* | 0.06 | 10 | **310.00** |
| 7103011 | 40* | 0.10 | 10 | **325.00** |
| 7103012 | 50 | 0.10 | 10 | **365.00** |
| 7103016 | 100 | 0.16 | 10 | **515.00** |

* As per Borosil standard

# 7106 - VOLUMETRIC PIPETTES

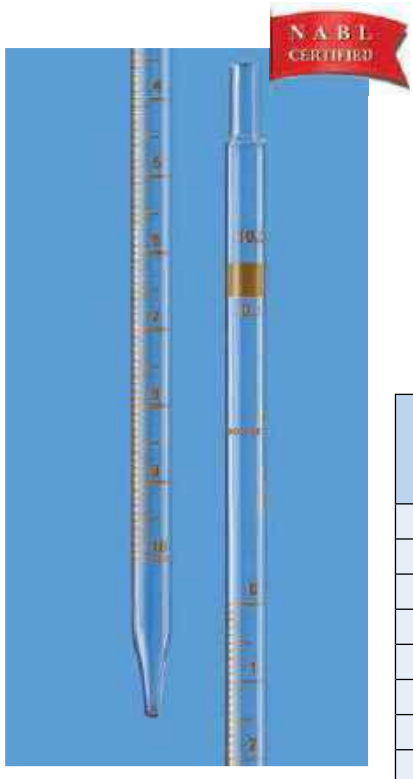
## Class A, ASTM, Amber, with Individual Calibration Certificate






- Complies with ASTM E-969-02
- Calibrated for delivery (TD, Ex)
- Each pipette coded with unique identification number (UID) and supplied with calibration certificate with traceability to national standards
- Uniform amber colour protects liquids from light radiation with a wave-length between 300 nm and 500 nm
- Ideal for use with light-sensitive solutions
- Generally used for accurate measurement and decanting of liquid
- Calibrated and certified at 20°C

| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7106001 | 1 | 0.006 | 10 | **705.00** |
| 7106002 | 2 | 0.006 | 10 | **705.00** |
| 7106005 | 5 | 0.01 | 10 | **775.00** |
| 7106006 | 10 | 0.02 | 10 | **800.00** |
| 7106008 | 20 | 0.03 | 10 | **865.00** |
| 7106009 | 25 | 0.03 | 10 | **865.00** |
| 7106012 | 50 | 0.05 | 10 | **1015.00** |
| 7106016 | 100 | 0.08 | 10 | **1345.00** |






## 2030 - MOHR PIPETTES

### NABL Certified, Class A

- Complies with IS, ISO 835, Type I
- Graduated for delivery from zero mark to the last graduation mark
- Supplied with individual NABL calibration certificate showing actual volume dispensed and providing traceability to national standards
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Calibrated & certified at 27°C

| Product Code | Capacity ml | Graduation Interval ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 2030P41 | 0.1 | 0.01 | 0.006 | 1 | **1235.00** |
| 2030P42 | 0.2 | 0.01 | 0.006 | 1 | **1235.00** |
| 2030P01 | 1 | 0.01 | 0.007 | 1 | **1200.00** |
| 2030P11 | 1 | 0.10 | 0.007 | 1 | **1335.00** |
| 2030P02 | 2 | 0.02 | 0.01 | 1 | **1255.00** |
| 2030P22 | 2 | 0.10 | 0.01 | 1 | **1200.00** |
| 2030P05 | 5 | 0.05 | 0.03 | 1 | **1340.00** |
| 2030P55 | 5 | 0.10 | 0.03 | 1 | **1235.00** |
| 2030P06 | 10 | 0.10 | 0.05 | 1 | **1480.00** |
| 2030P09 | 25 | 0.20 | 0.10 | 1 | **1870.00** |







## 2040 - VOLUMETRIC PIPETTES

### NABL Certified, Class A, with Individual Calibration Certificate

- Complies with IS 1117, ISO 648
- Calibrated for delivery (TD, Ex)
- Each pipette coded with unique identification number (UID) and supplied with NABL calibration certificate with traceability to national standards
- Generally used for accurate measurement and decanting of liquid
- Calibrated and certified at 27°C

| Product Code | Capacity ml | Tolerance ± ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 2040001 | 1 | 0.008 | 1 | **1045.00** |
| 2040002 | 2 | 0.01 | 1 | **1115.00** |
| 2040005 | 5 | 0.015 | 1 | **1195.00** |
| 2040006 | 10 | 0.02 | 1 | **1260.00** |
| 2040008 | 20 | 0.03 | 1 | **1435.00** |
| 2040009 | 25 | 0.03 | 1 | **1540.00** |
| 2040012 | 50 | 0.05 | 1 | **1970.00** |
| 2040016 | 100 | 0.08 | 1 | **2605.00** |

BOROSIL®

# NABL Certified Glassware

## For critical laboratory applications

- Volumetric Flasks
- Measuring Cylinders
- Volumetric and Graduated Pipettes
- Burettes
- Relative Density Bottles

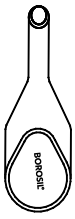



Pipettes

# Weighing Scoop

Borosil Weighing Scoops are primarily used when small quantities of powder, liquid or semi-solid material need to be weighed. The powder can be introduced into the receiving vessel through the tubular stem.






## 7200 - GLASS WEIGHING SCOOP

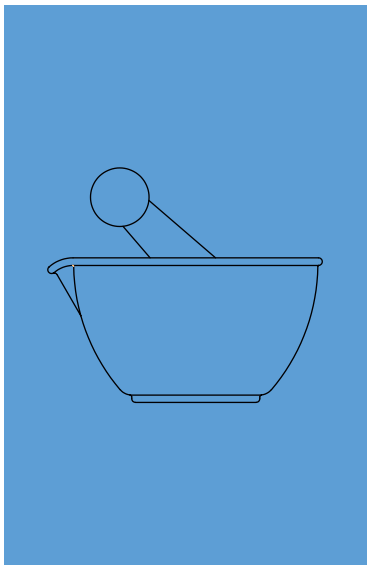
- Weighing scoops have an open tubular arm.
- Ideal for weighing small quantities of dyes and powders

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 7200P45 | 0.5 | 10 | **290.00** |
| 7200001 | 1 | 10 | **255.00** |
| 7200002 | 2 | 10 | **255.00** |
| 7200003 | 3 | 10 | **210.00** |
| 7200076 | 6 | 10 | **275.00** |
| 7200006 | 10 | 10 | **315.00** |

# Mortar and Pestle

Made of borosilicate glass for find grinding of high purity substances





## 7210 - GLASS MORTAR AND PESTLE

### Inside Rough

- Inside surface is made rough to ensure fine grinding
- Designed with pour out for which allows easy decanting of liquids

| Product Code | Top Diameter mm | Height* mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7210040 | 80 | 60 | 2 | **6295.00** |
| 7210041 | 100 | 75 | 2 | **7650.00** |
| 7210042 | 150 | 110 | 2 | **12465.00** |

* Height indicated is of mortar only

Based on your needs, we offer an assortment of centrifuge tubes, Folin-Wu Tubes. All are made from uniformly drawn high quality tubing for extended service life and your safety.

## 7840 - FOLIN - WU BLOOD SUGAR TUBE



- Complies with IS 3740
- Made of uniformly drawn high quality tubing for extended service life
- The tube is calibrated at 12.5 ml and 25 ml



| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 7840009 | 25 | 20 x 220 | 20 | **315.00** |

## 8060 - CENTRIFUGE TUBE

### Plain



- Made of uniformly drawn high quality tubing for extended service life
- Designed with conical bottom for the higher density fraction collection at the bottom of the tube
- Consequently, even small amounts of solids can be collected and separated




| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8060007 | 15 | 17 x 120 | 100 | **85.00** |

## 8080 - CENTRIFUGE TUBE

### Graduated



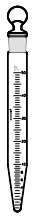
- Made of uniformly drawn high quality tubing for extended service life
- Designed with conical bottom for the higher density fraction collection at the bottom of the tube
- Consequently, even small amounts of solids can be collected and separated
- Graduated for greater precision



| Product Code | Capacity ml | Approx O.D. x Length | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8080007 | 15 | 17 x 120 | 30 | **170.00** |
| 8080012 | 50 | 29 x 135 | 20 | **335.00** |

**Amber colour Centrifuge tube available Product Code: 8081**



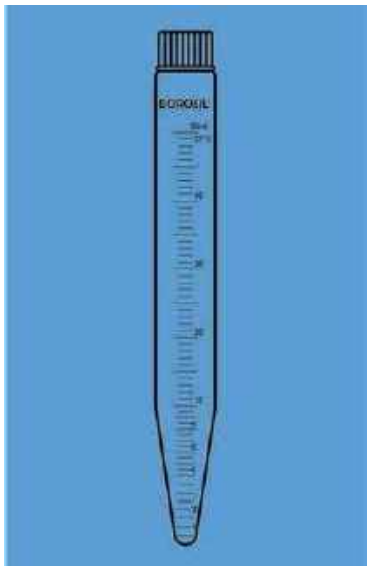


## 8084 - CENTRIFUGE TUBE

### Graduated With I/C Glass Stopper

- Made of uniformly drawn high quality tubing for extended service life
- Designed with conical bottom for the higher density fraction collection at the bottom of the tube
- Consequently, even small amounts of solids can be collected and separated
- Graduated for greater precision
- Supplied with glass stopper

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8084007 | 15 | 17 x 145 | 30 | **510.00** |
| 8084012 | 50 | 29 x 165 | 10 | **640.00** |




## 8090 - CENTRIFUGE TUBE

### Graduated With PP Screw Cap

- Supplied with screw cap made of polypropylene
- Made of uniformly drawn high quality tubing for extended service life
- Designed with conical bottom for the higher density fraction collection at the bottom of the tube
- Consequently, even small amounts of solids can be collected and separated
- Graduated for greater precision

| Product Code | Capacity ml | Approx O.D. x Length | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8090007 | 15 | 17 x 130 | 30 | **675.00** |
| 8090012 | 50 | 29 x 150 | 10 | **895.00** |

**Amber colour Centrifuge tube available Product Code: 8091**

## 8100 - Glass Stoppers

### ISO / DIN, Penny head, Clear



| Product Code | Stopper Number | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| ISO / DIN Standard (Long Neck) | | | | |
| 8100A10 | – | 10 / 19 | 20 | **110.00** |
| 8100A12 | – | 12 / 21 | 20 | **115.00** |
| 8100A14 | – | 14 / 23 | 20 | **115.00** |
| 8100A19 | – | 19 / 26 | 20 | **135.00** |
| 8100A24 | – | 24 / 29 | 20 | **255.00** |
| 8100A29 | – | 29 / 32 | 20 | **315.00** |
| 8100A34 | – | 34 / 35 | 20 | **330.00** |

## 8110 - Glass Stoppers

### ASTM, Penny head, Clear

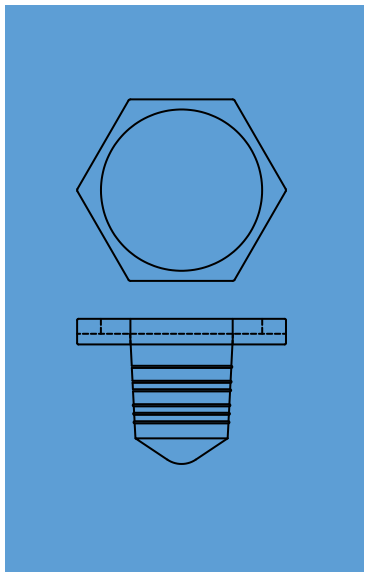


| Product Code | Stopper Number | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| ASTM Standard (Short Neck) | | | | |
| 8110008 | # 8 | 8.25 / 10 | 20 | **110.00** |
| 8110009 | # 9 | 9.4 / 14 | 20 | **125.00** |
| 8110013 | # 13 | 13.4 / 14 | 20 | **135.00** |
| 8110016 | # 16 | 16.5 / 15 | 20 | **255.00** |
| 8110019 | # 19 | 19.7 / 17 | 20 | **315.00** |
| 8110022 | # 22 | 22.05 / 20.5 | 20 | **330.00** |
| 8110027 | # 27 | 27.15 / 21.5 | 20 | **345.00** |

HSN Code : 70179090

## 8300 - Polypropylene (PP) Stoppers

- Flat head, ISO standard



| Product Code | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 8300007 | 7 / 16 | 20 | **50.00** |
| 8300A10 | 10 / 19 | 20 | **55.00** |
| 8300012 | 12 / 21 | 20 | **60.00** |
| 8300A14 | 14 / 23 | 20 | **65.00** |
| 8300A19 | 19 / 26 | 20 | **75.00** |
| 8300A24 | 24 / 29 | 20 | **95.00** |
| 8300A29 | 29 / 32 | 20 | **125.00** |
| 8300A34 | 34 / 35 | 20 | **140.00** |

HSN Code : 39235010





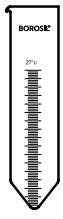
## 8320 - CENTRIFUGE TUBE HEAVY DUTY

### With Spout, Plain, Short Conical Bottom

- Made of uniformly drawn high quality tubing with increased wall thickness
- Spout allows easy decanting of liquids
- Designed with conical bottom for the higher density fraction collection at the bottom of the tube

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8320011 | 40 | 29 x 116 | 20 | **230.00** |





## 8340 - CENTRIFUGE TUBE HEAVY DUTY

### With Spout, Graduated, Short Conical Bottom

- Made of uniformly drawn high quality tubing with increased wall thickness
- Spout allows easy decanting of liquids
- Designed with conical bottom for the higher density fraction collection at the bottom of the tube
- Graduated tubes for greater precision

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8340011 | 40 | 29 x 116 | 20 | **415.00** |

Graduated upto 10 ml in 0.5 ml and from 10 ml to 40 ml in 1 ml divisions



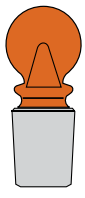
## 8400 - Glass Stoppers

### ISO / DIN, Penny head, Amber

| Product Code | Stopper Number | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| ISO / DIN Standard (Long Neck) | | | | |
| 8400A10 | – | 10 / 19 | 20 | **135.00** |
| 8400A12 | – | 12 / 21 | 20 | **175.00** |
| 8400A14 | – | 14 / 23 | 20 | **175.00** |
| 8400A19 | – | 19 / 26 | 20 | **200.00** |
| 8400A24 | – | 24 / 29 | 20 | **310.00** |
| 8400A29 | – | 29 / 32 | 20 | **360.00** |
| 8400A34 | – | 34 / 35 | 20 | **395.00** |

## 8410 - Glass Stoppers

### ASTM, Penny head, Amber



| Product Code | Stopper Number | Interchangeable Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| ASTM Standard | | | | |
| 8410008 | # 8 | 8.25 / 10 | 20 | **135.00** |
| 8410009 | # 9 | 9.4 / 14 | 20 | **145.00** |
| 8410013 | # 13 | 13.4 / 14 | 20 | **170.00** |
| 8410016 | # 16 | 16.5 / 15 | 20 | **310.00** |
| 8410019 | # 19 | 19.7 / 17 | 20 | **380.00** |
| 8410022 | # 22 | 22.05 / 20.5 | 20 | **400.00** |
| 8410027 | # 27 | 27.15 / 21.5 | 20 | **415.00** |

# Adapters

The Adapter tube listed below are the most widely used ones, and will enable a laboratory to assemble its own apparatus using the Flasks and Condensers listed earlier. The joints are fully interchangeable and made to the same precision as all Borosil ground joints.

## 8800 - ENLARGING CONNECTING ADAPTERS




- An outer interchangeable joint at the top and a smaller inner interchangeable joint at the base
- These joints are made to the same precision as all Borosil ground joints




| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8800A01 | 19 / 26 | 14 / 23 | 5 | 355.00 |
| 8800A02 | 24 / 29 | 14 / 23 | 5 | 445.00 |
| 8800A03 | 24 / 29 | 19 / 26 | 5 | 445.00 |
| 8800A04 | 29 / 32 | 19 / 26 | 5 | 530.00 |
| 8800A05 | 29 / 32 | 24 / 29 | 5 | 530.00 |
| 8800A06 | 34 / 35 | 19 / 26 | 5 | 685.00 |
| 8800A07 | 34 / 35 | 24 / 29 | 5 | 685.00 |
| 8800A08 | 34 / 35 | 29 / 32 | 5 | 685.00 |

## 8820 - REDUCTION CONNECTING ADAPTERS

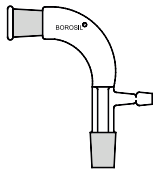



- An outer interchangeable joint at the top and a smaller inner interchangeable joint at the base
- These joints are made to the same precision as all Borosil ground joints.




| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8820A09 | 29 / 32 | 34 / 35 | 5 | 690.00 |
| 8820A10 | 14 / 23 | 19 / 26 | 5 | 355.00 |
| 8820A11 | 14 /23 | 24 / 29 | 5 | 445.00 |
| 8820A13 | 19 / 26 | 29 / 32 | 5 | 530.00 |
| 8820A14 | 19 / 26 | 34 / 35 | 5 | 685.00 |
| 8820A15 | 24 / 29 | 29 / 32 | 5 | 530.00 |
| 8820A16 | 24 / 29 | 34 / 35 | 5 | 685.00 |
| 8820A17 | 29 / 32 | 40 / 38 | 5 | 770.00 |
| 8820A18 | 19 /26 | 24 / 29 | 5 | 445.00 |

## 8830 - RECEIVER BENT ADAPTER WITH VACUUM CONNECTION

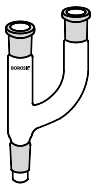






| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8830614 | 14 / 23 | 14 / 23 | 5 | 545.00 |
| 8830619 | 19 / 26 | 19 / 26 | 5 | 600.00 |
| 8830719 | 19 / 26 | 24 / 29 | 5 | 635.00 |
| 8830624 | 24 / 29 | 24 / 29 | 5 | 690.00 |
| 8830724 | 24 / 29 | 29 / 32 | 5 | 870.00 |
| 8830629 | 29 / 32 | 29 / 32 | 5 | 960.00 |

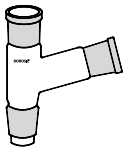




## 8831 - MULTIPLE ADAPTER
### With Two Parallel Necks

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8831614 | 14 / 23 | 14 / 23 | 5 | **375.00** |
| 8831619 | 19 / 26 | 19 / 26 | 5 | **410.00** |
| 8831719 | 19 / 26 | 24 / 29 | 5 | **455.00** |
| 8831624 | 24 / 29 | 24 / 29 | 5 | **495.00** |
| 8831819 | 19 / 26 | 34 / 35 | 5 | **580.00** |
| 8831629 | 29 / 32 | 29 / 32 | 5 | **645.00** |



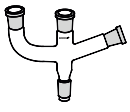


## 8832 - MULTIPLE ADAPTER
### With Two Necks

- With two neck - one Vertical & one at 45°

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8832619 | 19 / 26 | 19 / 26 | 5 | **410.00** |
| 8832719 | 19 / 26 | 24 / 29 | 5 | **435.00** |
| 8832819 | 19 / 26 | 34 / 35 | 5 | **530.00** |



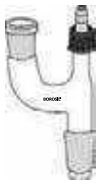


## 8833 - MULTIPLE ADAPTER
### With Three Necks

- With three necks - two parallel necks & one at 45°

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8833A19 | 19 / 26 | 24 / 29 | 5 | **600.00** |
| 8833B19 | 19 / 26 | 29 / 32 | 5 | **690.00** |
| 8833C19 | 19 / 26 | 34 / 35 | 5 | **790.00** |
| 8833D19 | 19 / 26 | 45 / 40 | 5 | **1015.00** |

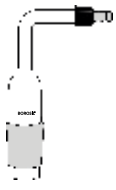
## 8834 - SWAN NECK ADAPTER





| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8834619 | 19 / 26 | 19 / 26 | 5 | **400.00** |
| 8834719 | 19 / 26 | 24 / 29 | 5 | **315.00** |
| 8834624 | 24 / 29 | 24 / 29 | 5 | **485.00** |
| 8834724 | 24 / 29 | 34 / 35 | 5 | **565.00** |

## 8835 - ADAPTER CONE / RUBBER TUBING





| Product Code | Socket Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 8835A10 | 10 / 19 | 5 | **215.00** |
| 8835A14 | 14 / 23 | 5 | **235.00** |
| 8835A19 | 19 / 26 | 5 | **280.00** |
| 8835A24 | 24 / 29 | 5 | **315.00** |
| 8835A29 | 29 / 32 | 5 | **435.00** |

## 8836 - ADAPTER CONE - FLEXIBLE TUBING

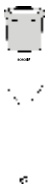






| Product Code | Socket Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 8836A14 | 14 / 23 | 5 | **235.00** |
| 8836A19 | 19 / 26 | 5 | **275.00** |
| 8836A24 | 24 / 29 | 5 | **315.00** |
| 8836A29 | 29 / 32 | 5 | **390.00** |
| 8836B10 | 10 / 19 | 5 | **255.00** |
| 8836B14 | 14 / 23 | 5 | **350.00** |
| 8836B19 | 19 / 26 | 5 | **350.00** |
| 8836B24 | 24 / 29 | 5 | **410.00** |
| 8836B29 | 29 / 32 | 5 | **495.00** |





## 8837 - ADAPTER RECEIVER

### Straight Socket To Rubber

| Product Code | Socket Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 8837A14 | 14 / 23 | 5 | 235.00 |
| 8837A19 | 19 / 26 | 5 | 275.00 |
| 8837A24 | 24 / 29 | 5 | 305.00 |
| 8837A34 | 34 / 35 | 5 | 400.00 |



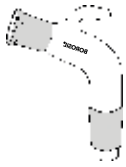


## 8838 - ADAPTER RECEIVER

### Straight With Vacuum

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8838614 | 14 / 23 | 14 / 23 | 5 | 315.00 |
| 8838714 | 14 / 23 | 19 / 26 | 5 | 335.00 |
| 8838814 | 14 / 23 | 24 / 29 | 5 | 410.00 |
| 8838619 | 19 / 26 | 19 / 26 | 5 | 400.00 |
| 8838719 | 19 / 26 | 24 / 29 | 5 | 435.00 |
| 8838624 | 24 / 29 | 24 / 29 | 5 | 480.00 |
| 8838724 | 24 / 29 | 29 / 32 | 5 | 580.00 |





## 8839 - ADAPTER RECEIVER

### Bent With Vent

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8839614 | 14 / 23 | 14 / 23 | 5 | 315.00 |
| 8839619 | 19 /26 | 19 / 26 | 5 | 360.00 |
| 8839719 | 19 / 26 | 24 / 29 | 5 | 435.00 |
| 8839624 | 24 / 29 | 24 / 29 | 5 | 480.00 |
| 8839629 | 29 /32 | 29 / 32 | 5 | 690.00 |

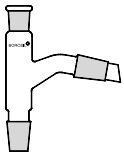
## 8840 - ADAPTER CONES SCREW THREAD





| Product Code | Socket Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 8840A14 | 14 / 23 | 5 | **335.00** |
| 8840A19 | 19 / 26 | 5 | **335.00** |
| 8840A24 | 24 / 29 | 5 | **390.00** |
| 8840A29 | 29 / 32 | 5 | **505.00** |

## 8841 - SLOPPING PLANE STILL HEAD





| Product Code | Flask Cone | Cond. Cone | Socket | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 8841610 | 10 / 19 | 10 / 19 | 10 / 19 | 5 | **495.00** |
| 8841614 | 14 / 23 | 14 / 23 | 14 / 23 | 5 | **520.00** |
| 8841619 | 19 / 26 | 19 / 26 | 14 / 23 | 5 | **590.00** |
| 8841819 | 19 / 26 | 19 / 26 | 19 / 26 | 5 | **625.00** |
| 8841724 | 24 / 29 | 19 / 26 | 14 / 23 | 5 | **655.00** |
| 8841624 | 24 / 29 | 24 / 29 | 19 / 26 | 5 | **715.00** |
| 8841729 | 29 / 32 | 19 / 26 | 14 / 23 | 5 | **730.00** |
| 8841629 | 29 / 32 | 29 / 32 | 14 / 23 | 5 | **1045.00** |
| 8841634 | 34 / 35 | 19 / 26 | 14 / 23 | 5 | **840.00** |
| 8841734 | 34 / 35 | 24 / 29 | 14 / 23 | 5 | **980.00** |
| 8841834 | 34 / 35 | 34 / 35 | 14 / 23 | 5 | **2805.00** |

## 8844 - ADAPTER RECEIVER

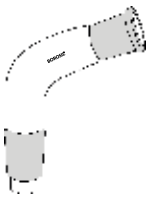
### Multiple Connectivity





| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8844614 | 14 / 23 | 14 / 23 | 5 | **960.00** |
| 8844714 | 14 / 23 | 19 / 26 | 5 | **1015.00** |
| 8844619 | 19 / 26 | 19 / 26 | 5 | **1130.00** |

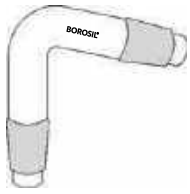




## 8845 - ADAPTER RECEIVER
### Plain Bent

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8845619 | 19 / 26 | 19 / 26 | 5 | 360.00 |
| 8845719 | 19 / 26 | 24 / 29 | 5 | 400.00 |
| 8845624 | 24 / 29 | 24 / 29 | 5 | 480.00 |
| 8845629 | 29 / 32 | 29 / 32 | 5 | 690.00 |





## 8846 - ADAPTER RECOVERY BENT
### With Sloping End

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8846614 | 14 / 23 | 14 / 23 | 5 | 275.00 |
| 8846724 | 24 / 29 | 14 / 23 | 5 | 360.00 |
| 8846619 | 19 / 26 | 19 / 26 | 5 | 360.00 |
| 8846824 | 24 / 29 | 19 / 26 | 5 | 380.00 |
| 8846729 | 29 / 32 | 19 / 26 | 5 | 495.00 |
| 8846734 | 34 / 35 | 19 / 26 | 5 | 530.00 |
| 8846624 | 24 / 29 | 24 / 29 | 5 | 380.00 |
| 8846834 | 34 / 35 | 24 / 29 | 5 | 590.00 |
| 8846634 | 34 / 35 | 34 / 35 | 5 | 655.00 |

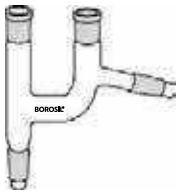




## 8847 - ADAPTER RECOVERY
### Bent Vertical

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8847614 | 14 / 23 | 14 / 23 | 5 | 390.00 |
| 8847619 | 19 / 26 | 19 / 26 | 5 | 480.00 |
| 8847724 | 24 / 29 | 14 / 23 | 5 | 505.00 |
| 8847624 | 24 / 29 | 24 / 29 | 5 | 600.00 |
| 8847629 | 29 / 32 | 29 / 32 | 5 | 790.00 |

## 8849 - CLAISEN HEAD SLOPING





| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8849614 | 14 / 23 | 14 / 23 | 5 | 645.00 |
| 8849619 | 19 / 26 | 19 / 26 | 5 | 715.00 |
| 8849724 | 24 / 29 | 19 / 26 | 5 | 750.00 |
| 8849624 | 24 / 29 | 24 / 29 | 5 | 815.00 |
| 8849629 | 29 / 32 | 29 / 32 | 5 | 880.00 |
| 8849734 | 34 / 35 | 24 / 29 | 5 | 940.00 |

## 8850 - ADAPTER RECEIVER

### Plain Vertical





| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8850614 | 14 / 23 | 14 / 23 | 5 | 590.00 |
| 8850719 | 19 / 26 | 24 / 29 | 5 | 645.00 |
| 8830724 | 24 / 29 | 29 / 32 | 5 | 730.00 |

## 8851 - SPLASH HEAD

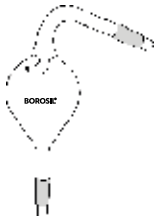
### Vertical, Pear Shape





| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8851619 | 19 / 26 | 19 / 26 | 5 | 730.00 |
| 8851724 | 24 / 29 | 19 / 26 | 5 | 750.00 |
| 8851624 | 24 / 29 | 24 / 29 | 5 | 940.00 |
| 8851629 | 29 / 32 | 29 / 32 | 5 | 1015.00 |



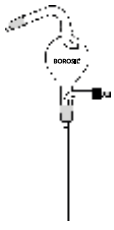


## 8852 - SPLASH HEAD SLOPING

### Pear Shape

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8852619 | 19 / 26 | 19 / 26 | 5 | **690.00** |
| 8852724 | 24 / 29 | 19 / 26 | 5 | **730.00** |
| 8852624 | 24 / 29 | 24 / 29 | 5 | **790.00** |
| 8852629 | 29 / 32 | 29 / 32 | 5 | **815.00** |

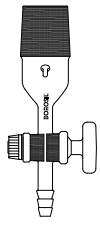




## 8853 - STEAM DISTILLATION HEADS

| Product Code | Socket Joint Size | Cone Joint Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8853724 | 24 / 29 | 19 / 26 | 5 | **1015.00** |
| 8853734 | 34 / 35 | 19 / 26 | 5 | **1245.00** |
| 8853834 | 34 /35 | 24 / 29 | 5 | **1280.00** |



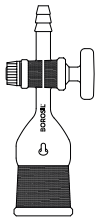


## 8854 - ADAPTOR

### Straight cone with stopcock

| Product Code | Cone Joint Size | Stopcock Bore mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8854014 | 14 / 23 | 2 | 5 | **1515.00** |
| 8854019 | 19 / 26 | 2 | 5 | **1535.00** |
| 8854024 | 24 / 29 | 2 | 5 | **1635.00** |
| 8854029 | 29 / 32 | 2 | 5 | **1825.00** |
| 8854034 | 34 / 35 | 2 | 5 | **2125.00** |

## 8855 - ADAPTOR
### Straight Socket With Stopcock





| Product Code | Cone Joint Size | Stopcock Bore mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8855014 | 14 / 23 | 2 | 5 | 1750.00 |
| 8855019 | 19 / 26 | 2 | 5 | 1760.00 |
| 8855024 | 24 / 29 | 2 | 5 | 1890.00 |
| 8855029 | 29 / 32 | 2 | 5 | 2015.00 |
| 8855034 | 34 / 35 | 2 | 5 | 2410.00 |

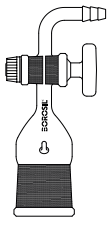
## 8856 - ADAPTOR
### Bent Cone With Stopcock





| Product Code | Cone Joint Size | Stopcock Bore mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8856014 | 14 / 23 | 2 | 5 | 1750.00 |
| 8856019 | 19 / 26 | 2 | 5 | 1760.00 |
| 8856024 | 24 / 29 | 2 | 5 | 1890.00 |
| 8856029 | 29 / 32 | 2 | 5 | 2015.00 |
| 8856034 | 34 / 35 | 2 | 5 | 2285.00 |

## 8857 - ADAPTOR
### Bent Socket With Stopcock





| Product Code | Cone Joint Size | Stopcock Bore mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8857014 | 14 / 23 | 2 | 5 | 1860.00 |
| 8857019 | 19 / 26 | 2 | 5 | 1875.00 |
| 8857024 | 24 / 29 | 2 | 5 | 2000.00 |
| 8857029 | 29 / 32 | 2 | 5 | 2290.00 |
| 8857034 | 34 / 35 | 2 | 5 | 2505.00 |





## 8861 - THERMOMETER POCKET
### Long Type

| Product Code | Cone Joint Size | Stopcock Bore mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8861014 | 14 / 23 | 2 | 10 | **445.00** |
| 8861019 | 19 / 26 | 2 | 10 | **565.00** |
| 8861024 | 24 / 29 | 2 | 10 | **630.00** |
| 8861029 | 29 / 32 | 2 | 10 | **1015.00** |
| 8861034 | 34 / 35 | 2 | 10 | **1190.00** |





## 8862 - THERMOMETER POCKET
### Short Type

| Product Code | Cone Joint Size | Stopcock Bore mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 8862014 | 14 / 23 | 2 | 10 | **495.00** |
| 8862019 | 19 / 26 | 2 | 10 | **600.00** |
| 8862024 | 24 / 29 | 2 | 10 | **685.00** |

Still using
non-certified vials for
storage of expensive
**working standards ?**

# BOROSIL®

PROUDLY MADE IN India

*is right here* **with a solution**

## Certified Sampling and Storage Vials

*An ideal container for storage of working standard solutions*




Made from 5.1 Low Expansion Borosilicate Glass

USP TYPE I

TYPE I ASTM E438 CLASS A

# Test Tubes




## 9800 - TEST TUBES

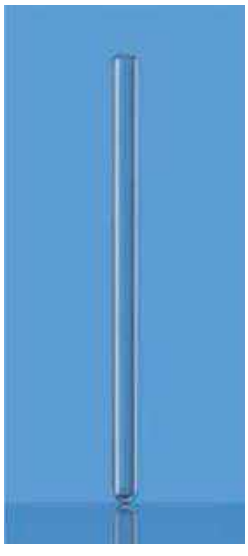
### With Rim




- Complies with IS 2618, DIN / ISO 4142
- Designed with a round bottom and a rim
- Made thick-walled, mechanically very resistant
- High thermal shock resistance

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 9800U01 | 3 | 10 x 75 | 800 | **10.00** |
| 9800U02 | 5 | 12 x 75 | 800 | **10.00** |
| 9800U03 | 7 | 12 x 100 | 800 | **14.00** |
| 9800U15 | 4 | 13 x 55* | 800 | **16.00** |
| 9800U04 | 13 | 15 x 125 | 800 | **18.00** |
| 9800U05 | 15 | 15 x 150 | 400 | **21.00** |
| 9800U06 | 27 | 18 x 150 | 400 | **22.00** |
| 9800U07 | 38 | 25 x 100# | 200 | **28.00** |
| 9800U08 | 55 | 25 x 150 | 200 | **34.00** |
| 9800U09 | 70 | 25 x 200 | 100 | **44.00** |
| 9800U10 | 100 | 32 x 200 | 50 | **66.00** |
| 9800U11 | 170 | 38 x 200 | 50 | **80.00** |

* IS : 3740 for tube widal
# Not covered in the standard



## 9801 - TUBE FOR CULTURE COLLECTION

- Designed with a round bottom
- Thick walled and high mechanical resistance
- High thermal shock resistance
- Used for blood and microbial culturing

| Product Code | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 9801U01 | 7 x 127 | 800 | **30.00** |

# 9820 - TEST TUBES

## Without Rim




- Complies with IS 2618, DIN / ISO 4142
- Designed with a round bottom and without rim
- Made thick-walled, mechanically very resistant
- High thermal shock resistance




| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 9820U16 | 1 | 7 x 60* | 800 | **10.00** |
| 9820U01 | 3 | 10 x 75*** | 800 | **10.00** |
| 9820U02 | 5 | 12 x 75**/*** | 800 | **10.00** |
| 9820U03 | 7 | 12 x 100*** | 800 | **14.00** |
| 9820U17 | 8 | 12 x 125*** | 800 | **15.00** |
| 9820U04 | 13 | 15 x 125 | 800 | **18.00** |
| 9820U05 | 15 | 15 x 150 | 400 | **21.00** |
| 9820U12 | 12 | 16 x 100*** | 800 | **20.00** |
| 9820U18 | 20 | 16 x 150*** | 400 | **25.00** |
| 9820U06 | 27 | 18 x 150 | 400 | **22.00** |
| 9820U19 | 25 | 19 x 125*** | 400 | **25.00** |
| 9820U07 | 38 | 25 x 100# | 200 | **28.00** |
| 9820U08 | 55 | 25 x 150*** | 200 | **34.00** |
| 9820U09 | 70 | 25 x 200 | 100 | **44.00** |
| 9820U10 | 100 | 32 x 200 | 50 | **66.00** |
| 9820U11 | 170 | 38 x 200 | 50 | **80.00** |

* IS:3740 - 1966 for DURHAM FERMENTATION

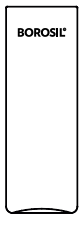
** IS:3740 - 1966 for KAHN & WASSERMAN TEST

*** IS:3740 - 1966 for BACTERIOLOGICAL TEST

# Not covered in the standard

# 9821 - FLAT BOTTOM TUBE

## Without Rim

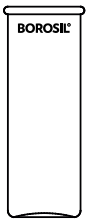



- Designed with flat bottom and without rim
- High thermal shock resistance
- Used for pathological tests and disintegration apparatus




| Product Code | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 9821U42 | 12 x 75 | 800 | **25.00** |



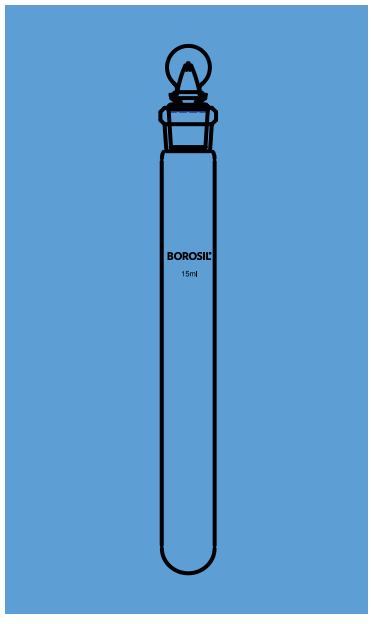




## 9822 - FLAT BOTTOM TUBE

### With Rim

- Designed with flat bottom and with rim
- High thermal shock resistance
- Used for pathological tests and disintegration apparatus

| Product Code | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 9822U04 | 14 x 110 | 800 | **45.00** |
| 9822U13 | 16 x 98 | 400 | **50.00** |
| 9822U07 | 18 x 55 | 100 | **40.00** |
| 9822U08 | 18 x 100 | 200 | **50.00** |
| 9822U06 | 18 x 138 | 400 | **55.00** |
| 9822U19 | 19 x 103 | 200 | **60.00** |




## 9829 - TEST TUBE

### Plain, With I/C Glass Stopper

- Supplied with interchangeable glass stopper
- Made thick-walled, mechanically very resistant
- High thermal shock resistance

| Product Code | Capacity ml | Approx O.D. x Length mm | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 9829006 | 10 | 17 x 160 | 10 / 19 | 10 | **235.00** |
| 9829007 | 15 | 19 x 150 | 14 / 23 | 10 | **255.00** |
| 9829008 | 20 | 19 x 160 | 14 / 23 | 10 | **275.00** |
| 9829010 | 30 | 25 x 155 | 19 / 26 | 10 | **285.00** |
| 9829012 | 50 | 25 x 200 | 19 / 26 | 10 | **305.00** |
| 9829016 | 100 | 34 x 210 | 24 / 29 | 10 | **450.00** |





## 9830 - GRADUATED TEST TUBE

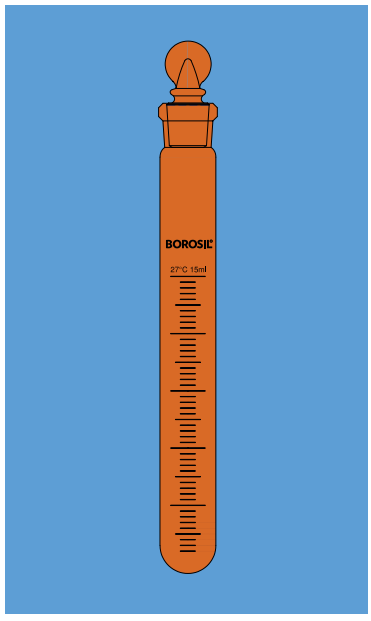
### With I/C Glass Stopper

- Supplied with interchangeable glass stopper
- Graduations in amber enamel
- Made thick-walled, mechanically very resistant
- High thermal shock resistance
- These test tubes are graduated for greater precision

| Product Code | Capacity ml | Approx O.D. x Length mm | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 9830006 | 10 | 17 x 160 | 10 / 19 | 10 | **255.00** |
| 9830007 | 15 | 19 x 150 | 14 / 23 | 10 | **290.00** |
| 9830008 | 20 | 19 x 160 | 14 / 23 | 10 | **305.00** |
| 9830010 | 30 | 25 x 155 | 19 / 26 | 10 | **315.00** |
| 9830012 | 50 | 25 x 200 | 19 / 26 | 10 | **330.00** |
| 9830016 | 100 | 34 x 210 | 24 / 29 | 10 | **490.00** |

## 9831 - GRADUATED TEST TUBE

### With I/C Glass Stopper, Amber




- Supplied with interchangeable glass stopper
- Graduations in white enamel
- Amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Made thick-walled, mechanically very resistant
- High thermal shock resistance
- These test tubes are graduated for greater precision

| Product Code | Capacity ml | Approx O.D. x Length mm | Stopper Size | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 9831006 | 10 | 17 x 160 | 10 / 19 | 10 | **370.00** |
| 9831007 | 15 | 19 x 150 | 14 / 23 | 10 | **395.00** |
| 9831008 | 20 | 19 x 160 | 14 / 23 | 10 | **405.00** |
| 9831010 | 30 | 25 x 155 | 19 / 26 | 10 | **445.00** |
| 9831012 | 50 | 25 x 200 | 19 / 26 | 10 | **470.00** |
| 9831016 | 100 | 34 x 210 | 24 / 29 | 10 | **665.00** |

## 9835 - COD DIGESTION TUBE



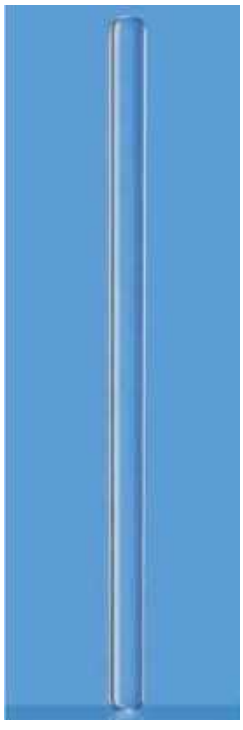
- Made from thick-walled and mechanically resistant borosilicate glass
- Used in COD disintegration



| Product Code | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 9835A01 | 36 x 205 | 10 | **530.00** |
| 9835001 | 39 x 205 | 10 | **530.00** |

# Stirrer Rod / Culture Tubes

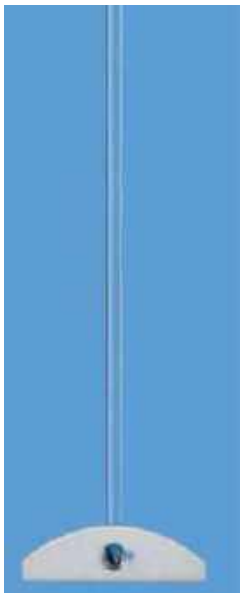
Stirrers are used in laboratories for mixing of liquids and decanting the supernatants. Stir rods with blade helps in creating some turbulence and allows efficient mixing of solutions. BOROSIL stirrers are made of 3.3 borosilicate glass and equipped with a chemically inert PTFE blade to maintain the purity of substances while mixing.

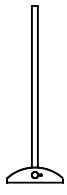




## 9850 - GLASS STIRRER ROD

| Product Code | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 9850107 | 7 x 150 | 20 | **35.00** |
| 9850207 | 7 x 205 | 20 | **45.00** |
| 9850307 | 7 x 255 | 20 | **45.00** |
| 9850407 | 7 x 305 | 20 | **65.00** |
| 9850109 | 9 x 150 | 20 | **45.00** |
| 9850209 | 9 x 205 | 20 | **65.00** |
| 9850309 | 9 x 255 | 20 | **75.00** |
| 9850409 | 9 x 305 | 20 | **75.00** |



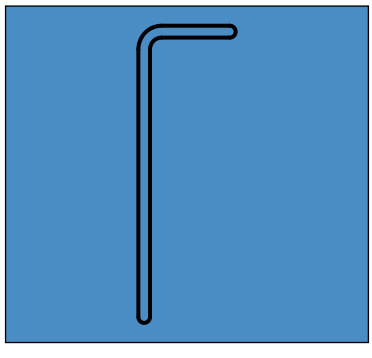


## 9860 - GLASS STIRRER ROD

### With PTFE Blade

- Provided with chemically inert PTFE blade
- Ideal for very sensitive samples
- Application in synthetic laboratory

| Product Code | Shaft Dia x Length mm | Blade width mm | Socket | Suitable for flask capacity | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 9860065 | 6 x 450 | 50 | 19 / 26 | 500 ml | 10 | **425.00** |
| 9860071 | 6 x 450 | 75 | 24 / 29 | 1000 ml | 10 | **530.00** |
| 9860077 | 8 x 600 | 100 | 34 / 35 | 2000 ml | 5 | **675.00** |
| 9860080 | 8 x 600 | 125 | 34 / 35 | 5000 ml | 5 | **745.00** |
| 9860081 | 10 x 750 | 150 | 55 / 44 | 10000 ml | 5 | **1330.00** |
| 9860087 | 10 x 750 | 200 | 55 / 44 | 20000 ml | 5 | **1480.00** |



## 9865 - GLASS L SHAPED SPREADER

- Made of 3.3 borosilicate glass
- Smooth glass surface hence no chances of agar layer disruption while spreading
- Easy to clean and autoclavable at 121°C
- Used for inoculating microbial cultures on agar plates

| Product Code | Approx OD x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 9865683 | 6 x 150 | 100 | **90.00** |

## 9900 - CULTURE TUBES

### Round Bottom, Clear, With PP Cap

- Supplied with polyproplylene cap and PTFE Liner (excpet 150 ml), autoclavable at 121°C
- Designed with special caps to facilitate handling and sealing
- The ideal replacement for media culture bottles




| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 9900005 | 5 | 16 x 75 | 100 | **70.00** |
| 9900006 | 10 | 16 x 125 | 100 | **75.00** |
| 9900010 | 30 | 25 x 100 | 100 | **90.00** |
| 9900012 | 50 | 25 x 150 | 50 | **95.00** |
| 9900013 | 60 | 25 x 200 | 50 | **95.00** |
| 9900018 | 150# | 38 x 200 | 50 | **285.00** |

All caps are Polypropylene with PTFE liner, except 150 ml

#Blue colour cap without PTFE liner & autoclavable up to 140°C

## 9901 - CULTURE TUBES

### Round Bottom, Amber, With PP Cap

- Supplied with polyproplylene cap and PTFE Liner (excpet 150 ml), autoclavable at 121°C
- The uniform amber colour is highly durable and protects light sensitive media and solutions
- Designed with special caps to facilitate handling and sealing
- The ideal replacement for media culture bottles



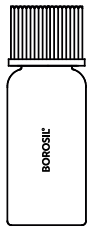

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 9901005 | 5 | 16 x 75 | 100 | **120.00** |
| 9901006 | 10 | 16 x 125 | 100 | **160.00** |
| 9901010 | 30 | 25 x 100 | 100 | **175.00** |
| 9901013 | 60 | 25 x 200 | 50 | **230.00** |
| 9901018 | 150# | 38 x 200 | 50 | **1030.00** |

All caps are Polypropylene with PTFE liner, except 150 ml

#Blue colour cap without PTFE liner & autoclavable up to 140°C

## 9910 - CULTURE TUBE

### Flat Bottom, Clear, With PP Cap




- Supplied with polyproplylene cap and PTFE Liner (excpet 150 ml), autoclavable at 121°C
- Designed with flat bottom for convenient storage and special caps to facilitate handling and sealing
- The ideal replacement for for Bijou, Mc Cartney and universal bottles




| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 9910005 | 5 | 16 x 50 | 100 | **65.00** |
| 9910006 | 10 | 25 x 50 | 100 | **80.00** |
| 9910007 | 15 | 25 x 57 | 100 | **80.00** |
| 9910008 | 20 | 25 X 72 | 100 | **85.00** |
| 9910010 | 30 | 25 x 95 | 100 | **90.00** |
| 9910012 | 50 | 25 x 145 | 50 | **95.00** |







## 9911 - CULTURE TUBE

### Flat Bottom, Amber, With PP Cap

- Supplied with polyproplylene cap and PTFE Liner (excpet 150 ml), autoclavable at 121°C
- The uniform amber colour is highly durable and protects light sensitive media and solutions
- Designed with flat bottom for convenient storage and special caps to facilitate handling and sealing
- The ideal replacement for for Bijou, Mc Cartney and universal bottles

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 9911005 | 5 | 16 x 50 | 100 | **120.00** |
| 9911006 | 10 | 25 x 50 | 100 | **165.00** |
| 9911007 | 15 | 25 x 57 | 100 | **165.00** |
| 9911008 | 20 | 25 x 72 | 100 | **195.00** |
| 9911010 | 30 | 25 x 95 | 100 | **205.00** |







## 9913 - CERTIFIED SAMPLING & STORAGE VIALS

- Made of 5.1 expansion borosilicate glass conforming to USP type I, ASTM E438
- Supplied with high qulaity polypropylene cap with a PTFE liner, autoclavable at 121°C
- Write on patch for easy labelling and identfication
- Complies glass composition and spectral transmission test as per USP chapter 660 USP 40 ad EP 9.0
- Packed in ISO "Class 8" clean room facility
- Amber colour protects light sensitive materials
- Ideal for storage of working standards, sampling of raw materials, chemical and biological samples

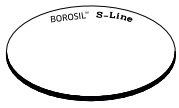
| Product Code | Capacity ml | Approx Mouth ID in mm | Dimension O.D. x Length in mm | Case Lot (MOQ) | Price Per Piece ₹ |
|---|---|---|---|---|---|
| 9913003 | 3 | 10 | 16 x 36 | 1050 | **35.00** |
| 9913005 | 5 | 10 | 16 x 55 | 1050 | **40.00** |
| 9913006 | 10 | 16.5 | 24 x 50 | 600 | **65.00** |
| 9913007 | 15 | 16.5 | 24 x 58 | 600 | **70.00** |
| 9913008 | 20 | 16.5 | 24 x 70 | 600 | **85.00** |
| 9913010 | 30 | 16.5 | 24 x 95 | 600 | **100.00** |

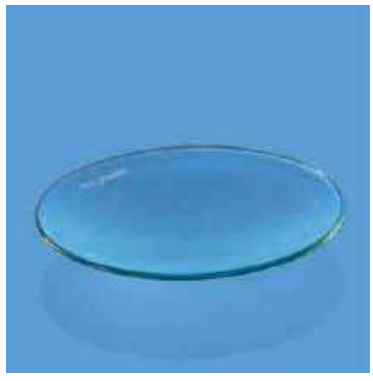
# Watch Glass

Watch glasses are used most oftenly in chemical laboratories for different applications such as evaporating liquids, weighing of substances, covers for beakers to prevent contamination. BOROSIL watch glass is designed with an optimum concave to suit these applications.

## 9986 - WATCH GLASSES

### S - Line



- Made of sodalime glass
- A special process is used that results in an absolutely flat curved surface
- High clarity, free of bubbles
- All of them are moulded to the same radius of curvature for convenient stacking

| Product Code | Size mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 9986072 | 80 | 50 | **110.00** |
| 9986077 | 100 | 50 | **125.00** |
| 9986079 | 120 | 20 | **135.00** |
| 9986081 | 150 | 20 | **175.00** |

# Sintered Ware

## Technical Data

Borosil Sintered Glassware is used for filtration of liquids and gases in the laboratory. It has a non-corrosive and reusable porous glass disc as the filter media. It is also used for gas washing, dispersion and absorption.

The Sintered Disc is manufactured by crushing Borosil glass, and then powdering, cleaning and separating it into various mesh sizes, and finally, fusing it together in the form of a Disc. Sintered Discs are classified into 5 grades - G1, G2, G3, G4 and G5. The grades are defined in terms of the maximum pore size that is obtained by measuring the pressure at which the first air bubble breaks away from the filter, under specified conditions. The pressure differential is then used to calculate the equivalent capillary diameters in microns. The desired pore size is obtained by controlling the grain size, firing time, temperature and thickness of the Disc. Each Disc is tested and graded individually.

The pore diameters are reasonably uniform, which ensures the required flow rate through the filter. The flow rate further depends on the pressure differential between the two sides of the Disc, the free area of the Disc, viscosity of the fluid being filtered, and other factors. There is a fair amount of uniformity in the pore size of different Discs of the same size and grade. Hence, the results from two or more Discs of the same size and grade will be uniform, thereby ensuring reproducible analytical results.

The Discs have maximum surface hardness and hence, the glass powder does not get scraped off while cleaning or with chemicals. The filters do not shed particles during usage.

The Discs are sealed to tubing without blocking the pores. They are then annealed properly in automatically controlled Lehrs.

## Porosity Grades And Their General Use

| Porosity Grade | Pore Size (Microns) | General use |
|---|---|---|
| 1 | 90-150 | Filtration of coarse materials / precipitates, gas dispersion, gas washing, extractor bed, support for other filter materials. |
| 2 | 40-90 | Filtration of medium precipitates gas disperation, gas washing. |
| 3 | 15-40 | Filtration of fine grain precipitates. Anayical work with medium precipitates. Mercury filtration |
| 4 | 5-15 | Analytical work with fine and very fine precipitates. Non return mercury valves. |
| 5 | 1-2 | Bacteriological filtration. |

## Chemical Durability

Borosil Sintered Ware is manufactured with the same high quality material of which all Borosil brand borosilicate laboratory glassware is made, ensuring excellent resistance to chemical attack.

## Operating Pressure

Sintered Discs, and the glassware that incorporates them, are designed mainly for the application of vacuum or for passage of gases at relatively low pressure. In all cases, the differential pressure must not exceed 100KN / m2 (15psi).

## Thermal Limitations

Sintered Ware has a lower level of resistance to thermal shock as compared to standard Borosil glassware. Therefore, articles of Sintered Ware should not be subjected to excessive temperature changes or direct flames.

Borosil Sintered Crucibles are especially suitable for drying to constant weight. Dry Sintered Crucibles at room temperature, can be placed directly into a drying oven. Sintered Ware may safely be heated in a furnace to 500°C without any adverse effects, while ensuring that the cycle of heating and cooling is gradual. It is recommended that the rate of heating does not exceed 20°C/min. This prevents internal strains caused by excessive temperature differences between the surrounding glass vessel and the Sintered Disc that, in turn, can lead to fracture of the apparatus.

When cold and damp, Sintered Ware of porosity grades 4 and 5 should never be subjected to a sudden temperature change as the evolution of steam may generate pressure within the filter, sufficient to crack it.

Filtration Apparatus should be kept on its rim (stem upwards) in an oven or steriliser. A perforated support base is advantageous for air convection in case of pipeline filters. By using heat insulating material such as asbestos, care should be taken to avoid premature heating near the filter seal. The apparatus should remain in the oven or steriliser during cooling, to prevent excessively fast cooling.

## Cleaning Of Sintered Ware

New Sintered Filters should be washed carefully with hot hydrochloric acid, and then rinsed with distilled water before use. Such treatment ensures that all loose particles are removed from the Filter.

It is advisable to clean all Sintered Filters thoroughly, immediately after use, as cleaning is easiest at this time, and it also reduces the risk of contamination in the next use.

Many precipitates can be removed from the filter by back-flushing with water. However, great care must be taken with large diameters and fine filters, as positive pressures on the reverse side may break the filter.

Under no circumstances should Sintered Apparatus be subjected to mains water pressure when back-flushing, as in most instances this leads to fractured filters.

Drawing water through the filter from the reverse side, by means of a vacuum pump, is also effective.

Filters clogged with dust and dirt during gas filtration can be restored by treatment with warm detergent solution, followed by blowing clean air through, from the clean side of the filter. Dirt particles are brought to the surface by the foam, and removed by rinsing with water.

Some precipitates that clog the filter may be removed by chemical cleaning, as indicated below:

- **Fats and grease**
  Carbon tetrachloride or suitable organic solvent
- **Albumen glucose:**
  Hot ammonia or hydrochloric acid, mixture of hot concentrated sulphuric and nitric acids
- **Organic substances :**
  'Chromic' acid cleaning solution* or concentrated sulphuric acid containing a little potassium nitrate or perchlorate (0.5%) (may need to be soaked overnight)
- **Copper or iron oxide :**
  Hot concentrated hydrochloric acid with potassium chlorate.
- **Barium sulphate :**
  Hot concentrated sulphuric acid
- **Mercury Residues :**
  Hot concentrate nitric acid
- **Mercury Sulphide :**
  Hot aqua regia
- **Silver chloride :**
  Ammonia or sodium hyposulphite
- **Stannic oxide :**
  Boiling sulphuric acid**

## Alumina or silica residues :

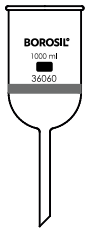
2% hydrofluoric acid followed by concentrated sulphuric acid. Rinse immediately with distilled water and then with acetone. Continue rinsing until no trace of acid remains.

High concentrations of hydrofluoric acid, hot phosphoric acid or caustic alkali solutions should never be used for cleaning. Using these causes a rapid deterioration in the filter and an increase in pore size.

* For bacteriological, pharmaceutical and biological work, 'chromic' acid cleaning solution should be avoided in view of the biological effect of chromium ions.

** Boiling sulphuric acid may introduce undue thermal strain. It is therefore advisable to leave the item in the acid to cool.






# 36060 - BUCHNER FUNNEL

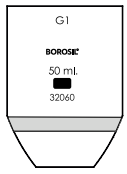
## With Sintered Disc

- Made of 3.3 borosilicate glass
- Especially useful where the filter paper may be attacked by filtered material
- Generally used in qualitative inorganic analysis and preparative chemistry
- Resistant to corrosion and heat

| Product Code | Capacity ml | Porosity Grade | Dia of Disc mm | Approx Height mm | Stem Dia mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|---|
| 3606058 | 35 | 1 | 30 | 130 | 8 | 5 | **670.00** |
| 3606658 | 35 | 2 | 30 | 130 | 8 | 5 | **640.00** |
| 3606758 | 35 | 3 | 30 | 130 | 8 | 5 | **670.00** |
| 3606858 | 35 | 4 | 30 | 130 | 8 | 5 | **640.00** |
| 3606958 | 35 | 5 | 30 | 130 | 8 | 5 | **805.00** |
| 3606072 | 80 | 1 | 35 | 142 | 8 | 5 | **1245.00** |
| 3606672 | 80 | 2 | 35 | 142 | 8 | 5 | **1245.00** |
| 3606772 | 80 | 3 | 35 | 142 | 8 | 5 | **1245.00** |
| 3606872 | 80 | 4 | 35 | 142 | 8 | 5 | **1245.00** |
| 3606972 | 80 | 5 | 35 | 142 | 8 | 5 | **1505.00** |
| 3606020 | 200 | 1 | 68 | 215 | 13 | 5 | **1935.00** |
| 3606620 | 200 | 2 | 68 | 215 | 13 | 5 | **1935.00** |
| 3606720 | 200 | 3 | 68 | 215 | 13 | 5 | **1935.00** |
| 3606820 | 200 | 4 | 68 | 215 | 13 | 5 | **1935.00** |
| 3606920 | 200 | 5 | 68 | 215 | 13 | 5 | **2250.00** |
| 3606024 | 500 | 1 | 92 | 258 | 17 | 2 | **4560.00** |
| 3606624 | 500 | 2 | 92 | 258 | 17 | 2 | **4560.00** |
| 3606724 | 500 | 3 | 92 | 258 | 17 | 2 | **4560.00** |
| 3606824 | 500 | 4 | 92 | 258 | 17 | 2 | **4560.00** |
| 3606924 | 500 | 5 | 92 | 258 | 17 | 2 | **5970.00** |
| 3606029 | 1000 | 1 | 124 | 276 | 19 | 2 | **8820.00** |
| 3606629 | 1000 | 2 | 124 | 276 | 19 | 2 | **8820.00** |
| 3606729 | 1000 | 3 | 124 | 276 | 19 | 2 | **8820.00** |
| 3606829 | 1000 | 4 | 124 | 276 | 19 | 2 | **8820.00** |
| 3606929 | 1000 | 5 | 124 | 276 | 19 | 2 | **11275.00** |

## 32060 - GOOCH CRUCIBLE

### Low Form, With Sintered Disc







- Made of 3.3 borosilicate glass
- Particularly adapted to analytical work where precipitates are dried to constant weight at 110°C
- Crucibles should not be subjected to sudden temperature changes
- In order to avoid strain, they should not be removed from the furnace until the temperature has dropped to 250°C
- Gooch Crucible is used for metal casting and analysis

| Product Code | Capacity ml | Porosity Grade mm | Dia of Disc mm | Approx Height | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|---|
| 3206007 | 15 | 1 | 20 | 50 | 10 | **460.00** |
| 3206607 | 15 | 2 | 20 | 50 | 10 | **460.00** |
| 3206707 | 15 | 3 | 20 | 50 | 10 | **460.00** |
| 3206807 | 15 | 4 | 20 | 50 | 10 | **460.00** |
| 3206907 | 15 | 5 | 20 | 50 | 10 | **565.00** |
| 3206010 | 30 | 1 | 30 | 60 | 10 | **615.00** |
| 3206610 | 30 | 2 | 30 | 60 | 10 | **615.00** |
| 3206710 | 30 | 3 | 30 | 60 | 10 | **615.00** |
| 3206810 | 30 | 4 | 30 | 60 | 10 | **615.00** |
| 3206910 | 30 | 5 | 30 | 60 | 10 | **755.00** |
| 3206012 | 50 | 1 | 40 | 65 | 10 | **710.00** |
| 3206612 | 50 | 2 | 40 | 65 | 10 | **710.00** |
| 3206712 | 50 | 3 | 40 | 65 | 10 | **710.00** |
| 3206812 | 50 | 4 | 40 | 65 | 10 | **710.00** |
| 3206912 | 50 | 5 | 40 | 65 | 10 | **885.00** |

## 32061 - TUBE FOR GOOCH CRUCIBLE






- Made of 3.3 borosilicate glass
- Suitable for use with Borosil's Gooch Crucible with sintered disc

| Product Code | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3206127 | 27 x 150 | 5 | **205.00** |
| 3206136 | 36 x 160 | 5 | **290.00** |
| 3206156 | 56 x 170 | 10 | **430.00** |

These are suitable for use with our filtering crucibles Gooch Type with sintered disc, No. 32060 lower part 8 mm O.D. x 75 mm length in all sizes.

BOROSIL®

# Quartz Ware

## *Boron Free Transparent Silica*

**Borosil** Fused Silica 99.95% $SiO_2$ surpasses all of the desirable chemical and weathering durability properties usually associated with opaque Silica ware. We manufacture as per IS and BS Standards.



a) There is little or no visible surface change or damage to silica with prolonged exposure to water, atmospheric gases, contaminants, oxide of nitrogen and ozone.

b) Attack does occur, on exposure to alkaline solution and acids at very high temperatures.

c) Low expansion and hence excellent dimensional stability and thermal shock resistance.









**Resistant to chemical attack**

Virtually unaffected by sulphuric, nitric and hydrochloric acids. Hot alkalies and certain metal oxides react on silica. It is attacked by hydrofluoric acid. At high temperatures, it is also attacked by phosphoric acid.

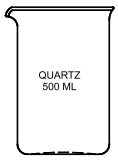
Continuous use of fused silica above 1000°C leads to devitrification with formation of crystobalite which is a crystalline phase and will lead to breakage on repeated use. For accurate and long use, it is advisable to wash the articles in distilled water and alcohol to remove trace impurities.

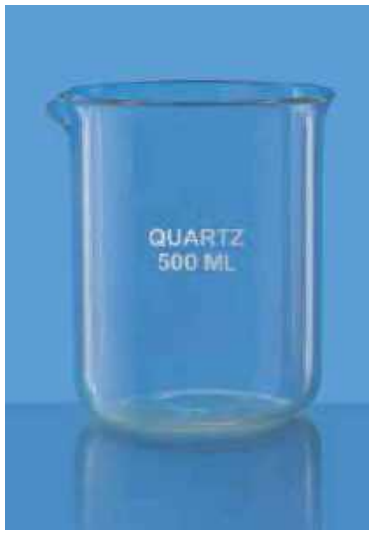
Heating fused quartz to elevated temperatures causes $Sio_2$ to undergo dissociation. Consequently, when flame-working fused quartz, there is a brand of haze or smoke which forms just outside the intensely heated region. This haze presumably forms because the $Si0_2$ recombines with oxygen from the air (and perhaps water) and condenses as extremely small particles of amorphous $Sio_2$.

| | |
|---|---|
| **Co-efficient of expansion 0°C to 800°C** | **5.5 X $10^{-7}$ cm / cm / °C** |
| **Softening Point** | **1685°C** |
| **Annealing Point** | **1200°C** |
| **Strain Point** | **1120°C** |
| **Operating Temp** | **1050°C** |

## 1002 - QUARTZ LOW FORM BEAKER

### With Spout

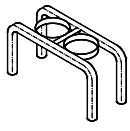



- Beaker with Spout for Clean Pouring
- Dimensional accuracy
- Tough construction
- Durability

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 1002009 | 25 | 35 x 45 | 5 | **1610.00** |
| 1002012 | 50 | 40 x 58 | 5 | **2375.00** |
| 1002016 | 100 | 50 x 75 | 5 | **3655.00** |
| 1002018 | 150 | 55 x 88 | 5 | **4730.00** |
| 1002021 | 250 | 70 x 95 | 1 | **7065.00** |
| 1002024 | 500 | 85 x 115 | 1 | **13530.00** |
| 1002029 | 1000 | 105 x 145 | 1 | **23535.00** |

## 3175 - QUARTZ MUFFLE TRAYS





- Perfect finish
- Sturdiness
- Durability
- Holes: 2/4

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3175041 | 2 Holes | 39 | 1 | **2125.00** |
| 3175042 | 4 Holes | 76 | 1 | **4150.00** |

## 3185 - QUARTZ ROUND DISHES/BASINS

### With Spout

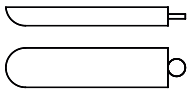




- Round with Spout
- Perfect finish
- Accurate dimensions
- Longer life span

| Product Code | Approx O.D. x Height mm | Nominal Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3185008 | 55 x 23 | 20 | 10 | **1395.00** |
| 3185042 | 75 x 27 | 45 | 5 | **3945.00** |
| 3185044 | 85 x 35 | 70 | 5 | **4920.00** |
| 3185045 | 95 x 36 | 85 | 1 | **8150.00** |
| 3185016 | 100 x 38 | 100 | 1 | **9805.00** |
| 3185046 | 115 x 47 | 200 | 1 | **14910.00** |





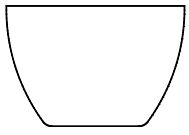
## 3186 - QUARTZ COMBUSTION BOATS

### With Handle

- Light in weight
- Longer life span
- Accurate dimensions
- Sturdiness

| Product Code | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3186Q01 | 12 x 77 | 1 | **1305.00** |





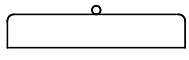
## 3190 - QUARTZ CRUCIBLES

### Without Lid

- Accurate dimensions
- Longer life span
- Fine finish
- Sturdiness

| Product Code | Capacity ml | Approx O.D. x Length mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|
| 3190007 | 15 | 40 x 26 | 10 | **765.00** |
| 3190009 | 25 | 47 x 30 | 10 | **1115.00** |
| 3190012 | 50 | 57 x 35 | 10 | **1780.00** |
| 3190015 | 80 | 69 x 45 | 10 | **2870.00** |
| 3190018 | 150 | 80 x 54 | 5 | **5255.00** |



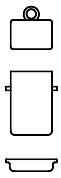


## 3191 - LIDS FOR QUARTZ CRUCIBLES (CAT. NO. 3190)

- Accurate dimension
- Longer life span
- Fine finish
- Sturdiness

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3191007 | 15 | 10 | **755.00** |
| 3191009 | 25 | 10 | **1070.00** |
| 3191012 | 50 | 10 | **1675.00** |
| 3191015 | 80 | 10 | **2770.00** |

## 3195, 3196 & 3197 - QUARTZ VOLATILE MATTER CRUCIBLES

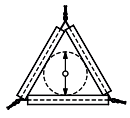




- Dimensional accuracy
- Tough construction
- Durability
- Comes with Lid and Plunger

| Product Code | Catalogue No. | Item | Dimension mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|---|---|
| 3195041 | 3195 | Crucible | 25 x 38 | 5 | **2150.00** |
| 3196041 | 3196 | Plunger | 12.5 | 5 | **705.00** |
| 3197041 | 3197 | Lid | | 5 | **630.00** |

## 3198 - QUARTZ SILICA TRIANGLES
### on Nichrome (Translucent)

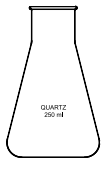




- Longer life span
- Sturdiness
- Seamless finish

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3198007 | 15 | 10 | **280.00** |
| 3198009 | 25 | 10 | **370.00** |
| 3198012 | 50 | 10 | **705.00** |
| 3198015 | 80 | 5 | **1005.00** |

## 4984 - QUARTZ ERLENMEYER (CONICAL) FLASK







- Suitable for digestion of samples with concentrated acid (except HF)
- Ideal for estimation of boron in soil
- Withstand sudden heating & cooling

| Product Code | Capacity ml | External Dimension | | Price / Piece ₹ |
|---|---|---|---|---|
| | | O.D. mm | Height mm | |
| 4984016 | 100 | 64 | 105 | **7395.00** |
| 4984018 | 150 | 72 | 124 | **9095.00** |
| 4984021 | 250 | 85 | 140 | **11510.00** |



## 5644 - QUARTZ VOLUMETRIC FLASK

### With I/C Quartz Stopper, Class B

- Dimensional accuracy
- Sturdiness
- Durability
- Perfect finish

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 5644005 | 5 | 1 | **6200.00** |
| 5644006 | 10 | 1 | **3560.00** |
| 5644009 | 25 | 1 | **4210.00** |
| 5644012 | 50 | 1 | **5040.00** |
| 5644016 | 100 | 1 | **6510.00** |
| 5644021 | 250 | 1 | **9445.00** |
| 5644024 | 500 | 1 | **12575.00** |
| 5644029 | 1000 | 1 | **25120.00** |



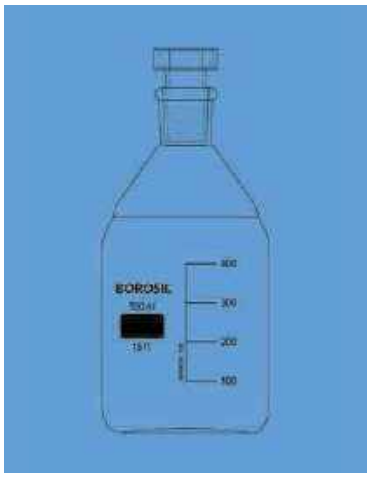
QUARTZ

## 8600 - QUARTZ CIRCULAR CAPSULE

- Suitable for determination of ash content in coal analysis
- Withstand sudden heating & cooling

| Product Code | External Dimension | | Price / Piece ₹ |
|---|---|---|---|
| | Height mm | Diameter mm | |
| 8600Q01 | 14 | 48 | **1780.00** |
| 8600Q02 | 15 | 54 | **2020.00** |

*The ash content in coal is an important parameter in determining the quality of coal. Ash reduces the calorific value of coals and hence burning coals on a large scale require knowledge of their ash content. Analysis is fairly straight forward, with the coal thoroughly burnt at 750°C to 800°C and the ash material express as a percentage of the original weight. It gives an indication about the quality of coal.



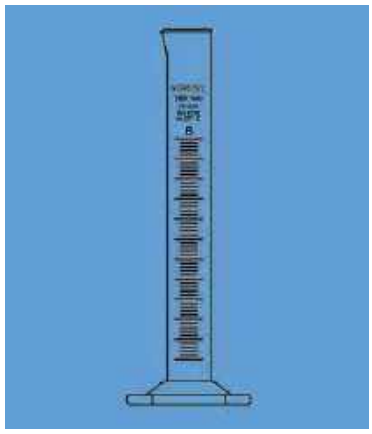
## 1511 - QUARTZ REAGENT BOTTLE

### With Hollow Quartz I/C Stopper

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 1511024 | 500 | 1 | **20465.00** |

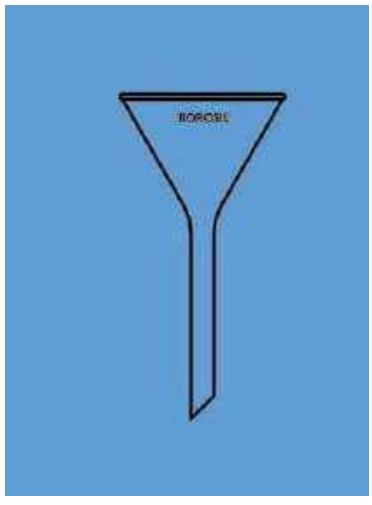
## 3028 - QUARTZ MEASURING CYLINDER
### With Spout, Class B

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 3028005 | 5 | 1 | 8250.00 |
| 3028006 | 10 | 1 | 9240.00 |
| 3028009 | 25 | 1 | 12540.00 |
| 3028012 | 50 | 1 | 19140.00 |
| 3028016 | 100 | 1 | 25745.00 |
| 3028021 | 250 | 1 | 36965.00 |
| 3028024 | 500 | 1 | 50825.00 |



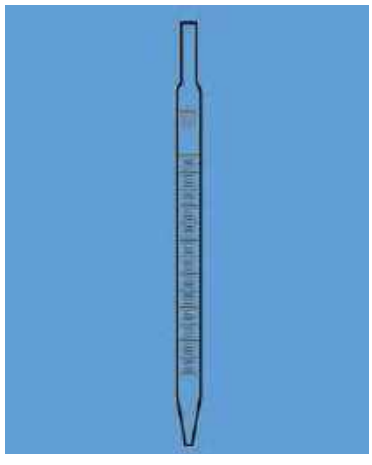
## 6141 - QUARTZ FILTER FUNNEL, 60°

| Product Code | Capacity mm | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 6141071 | 75 | 1 | 19305.00 |



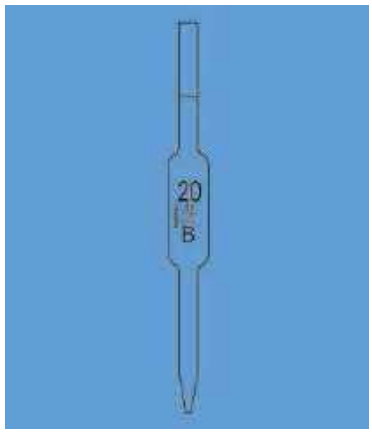
## 7064 - QUARTZ MOHR GRADUATED PIPETTES, CLASS B

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 7064P41 | 1 x 0.01 | 1 | 10695.00 |
| 7064P22 | 2 x 0.1 | 1 | 7260.00 |
| 7064P55 | 5 x 0.1 | 1 | 9375.00 |
| 7064P06 | 10 x 0.1 | 1 | 11220.00 |



## 7104 - QUARTZ VOLUMETRIC PIPETTES, CLASS B

| Product Code | Capacity ml | Quantity Per Case | Price / Piece ₹ |
|---|---|---|---|
| 7104001 | 1 | 1 | 8195.00 |
| 7104002 | 2 | 1 | 8195.00 |
| 7104003 | 3 | 1 | 10625.00 |
| 7104004 | 4 | 1 | 10625.00 |
| 7104005 | 5 | 1 | 10455.00 |
| 7104706 | 6 | 1 | 11760.00 |
| 7104006 | 10 | 1 | 11760.00 |



# Microscope Slides & Cover Glasses

Conformance ISO 8037 Standard

## Material

Made of sodalime glass with thickness of 1.0 - 1.2mm

## Edges

Finely ground edges at 90deg angle which minimizes the risk of cuts when handling the slides

## Surfaces

Slide surface is cleaned with water and dried before packing for the perfect smear preparations

## Packaging

Packed in a paper box containing silica desiccant to absorb moisture
50 slides per box and 25 boxes per case

## Types

**Plain**
For routine applications

**Frosted**
For easy labelling with marker



## 9100 - MICROSCOPE GLASS SLIDES

- Made from the finest white glass of uniform quality
- Conforms to ISO 8037 standard
- High- precision ground edges on all four sides
- Thin, flat and resistant to corrosion or fogging
- Pre-cleaned and ready to use
- Subjected to strict quality control checks, examined individually and environmentally controlled dry before packaging
- Specially designed for meeting the stringent needs of users
- Free from all visual defects
- Used for routine microscopy applications

| Product Code | Description | Dimensions mm L x B x WT | Quantity Per Packet No. | Packets / Case | Price / Packet ₹ |
|---|---|---|---|---|---|
| 9100P02 | Plain, Ground Edges | 76 x 26 x 1 | 50 | 25 | **120.00** |
| 9100D01 | Double Frosted, Ground Edges | 76 x 26 x 1 | 50 | 25 | **210.00** |

L : Length x B : Breadth x WT : Wall Thickness

9100P02 - PLAIN



9100D01 - DOUBLE FROSTED



## 9115 - COVER GLASS

- Made from the finest white glass of uniform quality
- Available in both square and rectangular shape
- Cover glass is cut, cleaned, sorted and weighed
- Resistance to corrosion and fogging
- Free from ragged edges, oily film and finer prints
- Packed in reclosable plastic boxes for protection during storage
- Pre cleaned and ready to use
- Subjected to strict quality control checks, examined individually and environmentally controlled to dry before packaging

| Product Code | Description | Dimensions mm | Quantity Per Packet / Piece | Packets / Case | Price / Packet ₹ |
|---|---|---|---|---|---|
| 9115S01 | Square | 18 x 18 | 100 | 50 | **305.00** |
| 9115S02 | Square | 22 x 22 | 100 | 50 | **450.00** |
| 9115S03 | Square | 24 x 24 | 100 | 50 | **510.00** |
| 9115R01 | Rectangular | 22 x 40 | 100 | 50 | **725.00** |
| 9115R02 | Rectangular | 22 x 50 | 100 | 50 | **845.00** |
| 9115R03 | Rectangular | 22 x 60 | 100 | 50 | **980.00** |

9115S01 - SQUARE



9115S02 - SQUARE



9115S03 - SQUARE



9115R01 - RECTANGULAR



9115R02 - RECTANGULAR



9115R03 - RECTANGULAR



BOROSIL®

# Analytical Vials & Closures

"for Labs where **compliance** matters"

- 2ml HPLC VIALS/CLOSURES/KIT
- 20ml HEADSPACE GC VIALS/CLOSURES/KIT
- Certified Pre-assembled EPA/TOC VIALS/KIT

## Why should I choose BOROSIL vials?

No matter which make of instrument you use, it is critical that your sample is carried in a reliable vial.

Whereas, it is important that vials are made within stringent dimensions in controlled conditions to perform consistently, it is even more critical to a Chemist to be able to confidently rule out the vial as a contributor to an OOS (out of specification) incident.

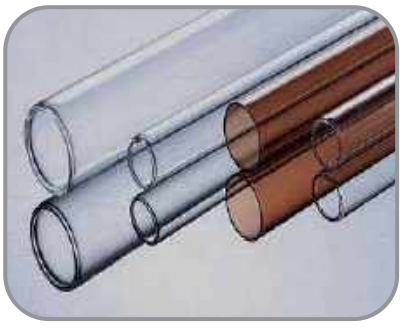
BOROSIL being a manufacturer of vials, provides a Chemist access to the detailed testing & quality documentation of vials thereby enabling a chemist to investigate root causes effectively.

Borosil vials are manufactured in ISO 15378 (GMP) Certified Plant Under Controlled Conditions Online camera for 100% DIMENSIONAL INSPECTION Class 8 Clean Room packaging to avoid the RISK OF CONTAMINATION



BOROSIL®

# Quality Assurance



## Raw Material

100% traceability across all manufacturing processes to raw materials. BMR confirms compliance to all critical specifications.



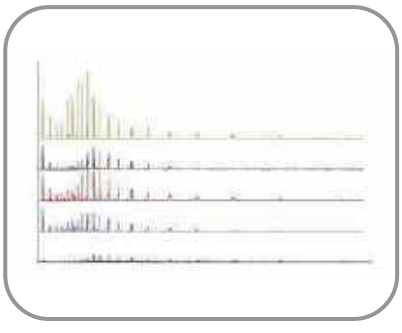
## Dimensional Conformity

A vial's dimensions are extremely important to achieve smooth auto sampler functioning and proper vial cap fitment. Borosil vials are inspected with inline optical inspection systems to minimize both dimensional and cosmetic defects



## SQC as per ISO 2589-1

In addition to in line inspection, sampling and inspection is also done by SQC for independent verification of process conformity.



## Process Cleanliness Assurance

Vials are packed in a Class 8 clean room. Process cleanliness is also assured by tests to confirm vials to be free from residual organic and qualitative testing for non interference by LCMS.



## 360° Quality System

Conversion process free of human interaction
In line inspection, printing and annealing
Dimensional & Cosmetic inspection
Analytical compatibility Complete traceability.

Borosil certified Vials are manufactured in an ISO 9001 certified facility, in accordance with US and European Pharmacopoeia.

## *Easy ordering!!!* The 14 Digit Code

Whether you choose to buy a combipack that includes **Vials** and matching **Closures** or only the glass vial or only the vial closure, **BOROSIL's 14 digit code** makes it very easy in **FOUR** simple steps!

### STEP 1

**Vial / Cap Size**

1. Start from the middle. The vial mouth size (outer) or the closure size is specified in digits 7 & 8. **"09"** for 9mm vial, **"11"** for 11mm, **"20"** for 20mm etc.

### STEP 2

**Combipack / Vial / Cap**

The first TWO digits help you select how you want to buy,

1. A combipack of matching Vial & Closure, your product code will start with **"V C"**
2. Only a Vial, your product code will start with **"V O"**
3. Only a closure, your product code will start with **"C S"**

| V | C | 0 | 2 | C | 1 | 0 | 9 | P | B | S | 1 | 1 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

### STEP 3

When selecting a **Combipack** or just Vials, the Glass Component "Vial" specification is determined as,

1. 3rd & 4th digits of the code determines the volume of the vial you want to buy, i.e. **"02"** for a 2ml vial, **"04"** for a 4ml vial etc.
2. Digit 5, Choose the color of the glass, when buying a vial or a Combipack, **"C"** for **"Clear glass"** & **"A"** for **Amber glass vial.**
3. Do you want a writing patch? Digit 6, **"1"** for writing patch, **"0"** for vial without writing patch.

### STEP 4

When selecting a **Combipack** or just Closures, specification is determined as,

1. Digit 9 tells you the material type of the closure,
   a. **"P"** for PLASTIC
   b. **"A"** for aluminum
2. Digit 10, gives the color of the closure,
   a. **"B"** for BLUE
   b. **"C"** for CLEAR
   c. **"S"** for Silver
   d. **"K"** for Black
3. Digit 11, gives the type of closure,
   a. **"S"** for Screw
   b. **"C"** for Crimp
   c. **"N"** for Snap
4. Digit 12, **"1"** for BONDED Septa **"0"** for NON BONDED Septa
5. Digits 13 & 14, help you determine the type of septa.

# 2ml HPLC SAMPLE VIALS & CLOSURES



for 9 mm Screw cap Vial



for 11 mm Screw cap Vial

**Screw Neck Vial**




**Crimp Neck Vial**




## Glass vials with closures (COMBIPACK)

| Product Code | Neck Dia | Septa Feature 1 | Graduation with write on patch | Septa Feature 2 | Pack Size | Case Lot | List Price Per Pack ₹ |
|---|---|---|---|---|---|---|---|
| **9mm Screw Top Clear Vials made from Borosilicate USP Type I 49-Expansion glass with Closure Blue PP Cap PTFE-Silicone Septa** | | | | | | | |
| VC02C009PBS124 | 9mm | Non Slit | NO | Bonded | 100 | 10 X 100 | **2700.00** |
| VC02C009PBS114 | 9mm | Pre Slit | NO | Bonded | 100 | 10 X 100 | **2700.00** |
| VC02C109PBS124 | 9mm | Non Slit | YES | Bonded | 100 | 10 X 100 | **2950.00** |
| VC02C109PBS114 | 9mm | Pre Slit | YES | Bonded | 100 | 10 X 100 | **2950.00** |
| VC02C109PBS113 | 9mm | Pre Slit | YES | Bonded | 100 | 10 X 100 | **3600.00** |
| **9mm Screw Top AMBER Vials made from Borosilicate USP Type I 54-Expansion glass with Closure Blue PP Cap PTFE-Silicone Septa** | | | | | | | |
| VC02A009PBS124 | 9mm | Non Slit | NO | Bonded | 100 | 10 X 100 | **3150.00** |
| VC02A009PBS114 | 9mm | Pre Slit | NO | Bonded | 100 | 10 X 100 | **3150.00** |
| VC02A109PBS124 | 9mm | Non Slit | YES | Bonded | 100 | 10 X 100 | **3400.00** |
| VC02A109PBS114 | 9mm | Pre Slit | YES | Bonded | 100 | 10 X 100 | **3500.00** |
| VC02A109PBS113 | 9mm | Pre Slit | YES | Bonded | 100 | 10 X 100 | **4100.00** |
| **11mm Crimp Top Clear Vials made from Borosilicate USP Type I 49-Expansion glass with Closure Silver Aluminium Crimp PTFE-Silicone Septa** | | | | | | | |
| VC02C011ASC021 | 11mm | Non Slit | NO | Non Bonded | 100 | 10 X 100 | **2200.00** |
| VC02C011ASC022 | 11mm | Pre Slit | NO | Non Bonded | 100 | 10 X 100 | **2400.00** |
| VC02C111ASC021 | 11mm | Non Slit | YES | Non Bonded | 100 | 10 X 100 | **2300.00** |
| VC02C111ASC022 | 11mm | Pre Slit | YES | Non Bonded | 100 | 10 X 100 | **2500.00** |
| **11mm Crimp Top AMBER Vials made from Borosilicate USP Type I 54-Expansion glass with Closure Silver Aluminium Crimp PTFE-Silicone Septa** | | | | | | | |
| VC02A011ASC021 | 11mm | Non Slit | NO | Non Bonded | 100 | 10 X 100 | **2300.00** |
| VC02A011ASC022 | 11mm | Pre Slit | NO | Non Bonded | 100 | 10 X 100 | **2500.00** |
| VC02A111ASC021 | 11mm | Non Slit | YES | Non Bonded | 100 | 10 X 100 | **2600.00** |
| VC02A111ASC022 | 11mm | Pre Slit | YES | Non Bonded | 100 | 10 X 100 | **2750.00** |

*SnapTop Clear & Amber Vials with Closures are available on request. MOQ 500 pkts

# 2 ml HPLC CERTIFIED VIALS & CLOSURES

## Borosilicate USP Type I, ASTM Class A 33-Expansion glass vial with ultra pure certified septa

- 3.3-Expansion Borosilicate Type I glass vial with **HIGH SILICON, LOW ALKALI** content (SiO2 81%, Na2O 3-3.5%)
- Leak proof Ultra pure certified **CHEMICALLY INERT** PTFE-Silicone septa
- **CHEMICALLY HIGHLY RESISTANT** glass vial
- **SPECIAL APPLICATIONS** in the pharmaceutical industries



## Glass vials with closures (COMBIPACK)

| Product Code | Neck Dia | Septa Feature 1 | Graduation with write on patch | Septa Feature 2 | Pack Size | Case Lot | List Price Per Pack ₹ |
|---|---|---|---|---|---|---|---|
| 9mm Screw Top Clear Vials made from Borosilicate USP Type I, ASTM Class A 33-Expansion glass with Closure Blue PP Cap Ultra Pure Certified PTFE-Silicone Septa | | | | | | | |
| VC02C409PBSUM1 | 9mm | Pre Slit | YES | Bonded | 100 | 10 X 100 | **5400.00** |
| VC02C409PBSUM2 | 9mm | Non Slit | YES | Bonded | 100 | 10 X 100 | **5400.00** |
| 9mm Screw Top Clear Vials made from Borosilicate USP Type I, ASTM Class A 33-Expansion glass with Closure Blue PP Cap High Purity PTFE-Silicone Septa | | | | | | | |
| VC02C409PBS113 | 9mm | Pre Slit | YES | Bonded | 100 | 10 X 100 | **4600.00** |

## Extractable study of vials and septa using LCMS-MS and GCMS Techniques

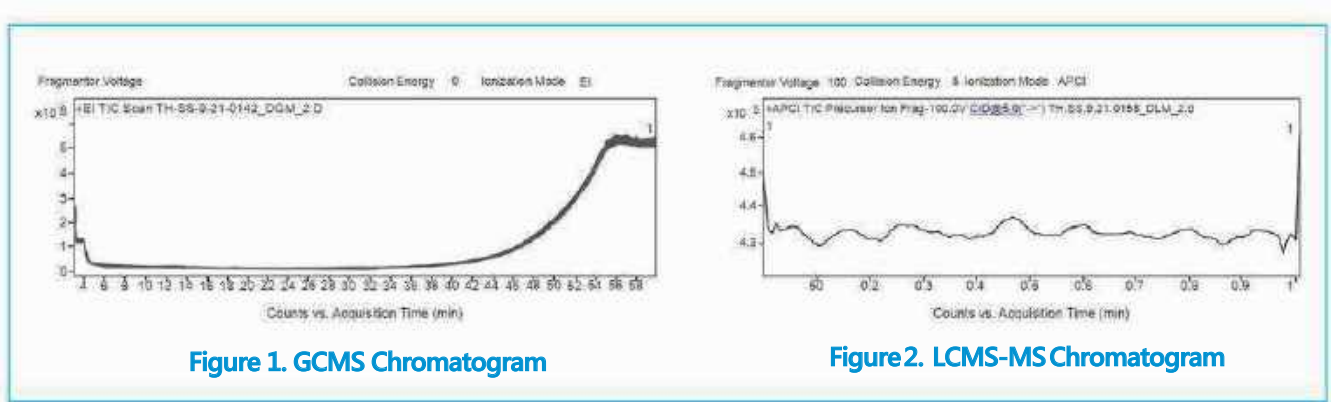



Figure 1. GCMS Chromatogram

Figure 2. LCMS-MS Chromatogram

**NO EXTRANEOUS PEAK** observed during chromatographic testing of vial & septa

# 20 ml HEADSPACE GC VIALS & CLOSURES

| Colour | Cap MOC | Top | Septa Mount | Septa MOC | Feature |
|---|---|---|---|---|---|
| Silver | Aluminum | Open | Friction | Silicone PTFE | Ultra Clean |






## Glass vials with closures (COMBIPACK)

| Product Code | Neck Dia | Septa Feature 1 | Graduation with write on patch | Septa Feature 2 | Pack Size | Case Lot | List Price Per Pack ₹ |
|---|---|---|---|---|---|---|---|
| **20mm Crimp Top Clear Vials made from Borosilicate USP Type I 49-Expansion glass with Closure Silver Aluminium Crimp PTFE-Silicone Septa** | | | | | | | |
| VC20R120ASC041 | 20mm | Non Slit | YES | Non Bonded | 100 | 5 X 100 | **7650.00** |
| VC20F120ASC041 | 20mm | Non Slit | YES | Non Bonded | 100 | 5 X 100 | **7650.00** |

## Only Glass Vials
## Clear Vials made from Borosilicate USP Type I glass

| Product Code | Volume | Vial Colour | Graduation with write on patch | Neck Dia | Neck Type | Glass Detail | Special Feature 1 | Pack Size | Case Lot | List Price 23-24 |
|---|---|---|---|---|---|---|---|---|---|---|
| VO02C00900S000 | 2ml | Clear | NO | 9mm | Screw | 49 Expansion | – | 100 | 10 X 100 | **1300.00** |
| VO02A00900S000 | 2ml | Amber | NO | 9mm | Screw | 54 Expansion | – | 100 | 10 X 100 | **1700.00** |
| VO02C10900S000 | 2ml | Clear | YES | 9mm | Screw | 49 Expansion | | 100 | 10 X 100 | **1550.00** |
| VO02A10900S000 | 2ml | Amber | YES | 9mm | Screw | 54 Expansion | | 100 | 10 X 100 | **2100.00** |
| VO02C01100C000 | 2ml | Clear | NO | 11mm | Crimp | 49 Expansion | | 100 | 10 X 100 | **1150.00** |
| VO02A01100C000 | 2ml | Amber | NO | 11mm | Crimp | 54 Expansion | | 100 | 10 X 100 | **1350.00** |
| VO02C11100C000 | 2ml | Clear | YES | 11mm | Crimp | 49 Expansion | | 100 | 10 X 100 | **1250.00** |
| VO02A11100C000 | 2ml | Amber | YES | 11mm | Crimp | 54 Expansion | | 100 | 10 X 100 | **1650.00** |
| VO20R12000C000 | 20ml | Clear | YES | 20mm | Crimp | 49 Expansion | Round Bottom | 100 | 5 X 100 | **3500.00** |
| VO20F12000C000 | 20ml | Clear | YES | 20mm | Crimp | 49 Expansion | Flat Bottom | 100 | 5 X 100 | **3500.00** |
| VO06CF2000C000 | 6ml | Clear | NO | 20mm | Crimp | 49 Expansion | Flat Bottom | 172 | 1 X 172 | **On request** |
| VO06AF2000C000 | 6ml | Amber | NO | 20mm | Crimp | 54 Expansion | Flat Bottom | 172 | 1 X 172 | **On request** |

*Only Closures are available on request. MOQ 500 PKTS

## 40 ml EPA / TOC COMBIPACK




## Glass vials with closures (COMBIPACK)

| Product Code | Neck Dia | Vial Colour | Septa Feature 1 | Graduation with write on patch | Neck Dia | Special Feature 2 | Pack Size | Case Lot | List Price 23-24 |
|---|---|---|---|---|---|---|---|---|---|
| **24mm Screw Top Clear Vials made from Borosilicate USP Type I with Closure White PP Cap Open Top Certified Bonded PTFE-Silicone Septa** | | | | | | | | | |
| VC40C124POS111 | 24mm | Clear | Non Slit | YES | Silicone PTFE | Non Bonded | 72 | 1 X 72 | **15400.00** |
| VC40A124POS111 | 24mm | Amber | Non Slit | YES | Silicone PTFE | Non Bonded | 72 | 1 X 72 | **On Request** |

## SAMPLING & STORAGE VIALS




| Product Code | Capacity ml | Approx Mouth ID in mm | Dimension O.D. x Length in mm | Case Lot (MOQ) | Price Per Piece ₹ |
|---|---|---|---|---|---|
| 9913003 | 3 | 10 | 16 x 36 | 1050 | **35.00** |
| 9913005 | 5 | 10 | 16 x 55 | 1050 | **40.00** |
| 9913006 | 10 | 16.5 | 24 x 50 | 600 | **65.00** |
| 9913007 | 15 | 16.5 | 24 x 58 | 600 | **70.00** |
| 9913008 | 20 | 16.5 | 24 x 70 | 600 | **85.00** |
| 9913010 | 30 | 16.5 | 24 x 95 | 600 | **100.00** |

* For details refer page no. 204

BOROSIL®

# Analytical

## Vials & Closures

### Special Applications in Base Sensitive Drugs

- Low leached "GLASS" elements
- Chemically Inert
- High Transparency
- Mechanically stable
- High Silicon, Low Alkali
- 100% Dimensional Inspection
- Leak Proof Ultra Pure Certified PTFE-Silicone Septa
- Packed in Class 8 Clean Room
- Process Cleanliness Assurance
- Pre-slit septa for essay piercing
- Low VOC's Level Septa
- High Resealability

Made from Borosilicate USP Type I,
ASTM Class A 33-Expansion glass




"for Labs where
compliance matters"

BOROSIL®

# Laboratory Accessories

- TONGS
- CLAMPS
- CLAMP WITH BOSSHEADS
- BURETTE CLAMPS
- PLASTIC CLAMPS FOR JOINTS
- RETORT RING
- RETORT BASE
- ROD FOR RETORT BASE
- TEST TUBE STAND
- TEST TUBE HOLDER
- BURNER
- SPATULAS
- FORCEPS
- WIRE GAUGE
- TRIPOD



## TONGS FOR BEAKERS & FLASKS



- Made of stainless steel
- Used to handle hot beakers & flasks
- Provided with silicon sleeves or in fibre glass yarn to resist direct flame

| Product Code | Description | Size Inches | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|---|
| LATG8888B10 | Beaker tong | 10 | 6 | **410.00** |
| LATG8888B12 | Beaker tong | 12 | 6 | **545.00** |
| LATG8888F10 | Flask tong | 10 | 6 | **520.00** |
| LATG8888F12 | Flaks tong | 12 | 6 | **645.00** |

## TONGS FOR CRUCIBLE



- Made of Stainless Steel
- Used to handle hot crucilbles

| Product Code | Description | Size Inches | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|---|
| LACT8888006 | Crucible tong with bow stainless steel | 6 | 6 | **205.00** |
| LACT8888008 | Crucible tong with bow stainless steel | 8 | 6 | **255.00** |
| LACT8888010 | Tong crucible, SS, | 10 | 6 | **355.00** |
| LACT8888012 | Crucible tong with bow stainless steel | 12 | 6 | **480.00** |

## CLAMPS



- Available in Zinc & Aluminium diacasted
- It is coated with LEAD-FREE powder coating & fitted with brass screw which makes it totally RUST-FREE CLAMP
- Two & three finger clamp Jaws can be covered with PVC sleeves
- Two & four finger clamp has cork lined Jaws holds upto 90 mm articles
- It is provided with 8 mm diameter & 150 mm long Stainless Steel(Grade 201)rod

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LAFC8888Z02 | Two finger clamp, Zinc pressure die casted | 10 | **410.00** |
| LAFC8888AD3 | Three finger clamp, Aluminum pressure die casted | 10 | **480.00** |
| LAFC8888ZD4 | Four finger clamp, Zinc pressure die casted | 10 | **410.00** |
| LAFC8888AD4 | Four finger clamp Aluminum pressure die casted | 10 | **435.00** |



## CLAMPS WITH BOSSHEAD

- Available in Zinc & Aluminium diacasted
- It is coated with LEAD-FREE powder coating & fitted with brass screw which makes it totally RUST-FREE CLAMP
- Two & three finger clamp Jaws can be covered with PVC sleeves
- Two & four finger clamp has cork lined Jaws holds upto 90 mm articles
- With adjustable bosshead attached clamp length can be vary, can be rotated 360° and locked at any angle

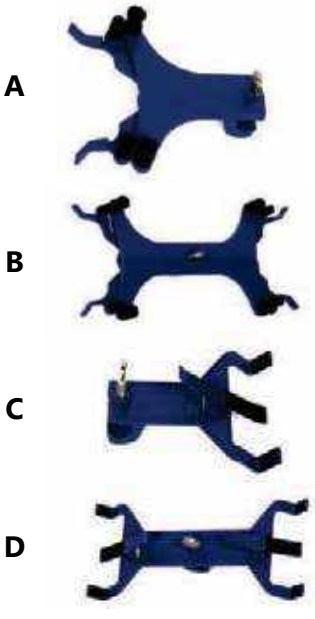
| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LAFC8888Z03 | Two finger clamp (Zinc PDC) with adjustable bosshead | 12 | **740.00** |
| LAFC8888A03 | Three finger clamp (Aluminium PDC) with adjustable bosshead | 12 | **740.00** |
| LAFC8888Z04 | Four finger clamp (Zinc PDC) with adjustable bosshead | 12 | **815.00** |
| LAFC8888A04 | Four finger clamp (Aluminium PDC) with adjustable bosshead | 12 | **850.00** |



## UNIVERSAL CLAMPS

- Single Burette / Test Tube Clamp made of stainless steel Jaws & Aluminium bosshead
- Round jaws are covered with PVC coating
- Opens from 15 mm to 45 mm in Diameter
- Clamps attaches to rods up to 13 mm in diameter. Threaded rod and wing nut adjust clamp angle and overall length from 13 cm to 15 cm

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LABC8888SC1 | Single Burette clamp, PVC coated jaws stainless steel | 12 | **545.00** |
| LABC8888S01 | Single Burette clamp, PVC uncoated jaws, stainless steel | 12 | **480.00** |




## BURETTE CLAMPS

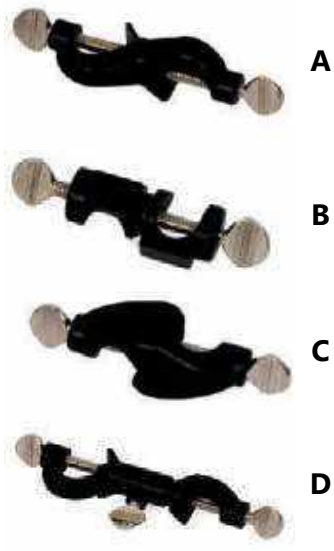
- Single / Double Burette clamp is made of Aluminum die casting
- Feature black PVC sleeves for firm gripping of burettes.
- This adjustable burette clamp is suitable for all burettes up to 100 ml which are held in place by the high pressure created by the springs yet allows easy operations without damaging the glassware

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LABC8888B01 | Single burette clamp, Aluminium PDC Fig. A | 6 | **815.00** |
| LABC8888A02 | Double burette clamp, Aluminium PDC Fig. B | 6 | **815.00** |
| LABC8888AE1 | Single burette clamp, Aluminium PDC (Eco.) Fig. C | 6 | **410.00** |
| LABC8888AE2 | Double burette clamp, Aluminium PDC (Eco.) Fig. D | 6 | **545.00** |

## BOSSHEADS

- Bosshead made of Zinc & Aluminum pressure die casted
- It can hold a rod upto 16 mm diameter at 90° angle and Swivel bosshead rotate at 360° angle
- It is coated with LEAD-FREE powder coating & fitted with Nickel plated thumb screw

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LABH8888RBL | Regular bosshead Zinc PDC Fig. A | 12 | **205.00** |
| LABH8888OBL | Round bosshead Zinc PDC Fig. B | 12 | **255.00** |
| LABH8888JBL | Jumbo bosshead Aluminum PDC Fig. C | 12 | **545.00** |
| LABH8888SBL | Swivel bosshead Zinc PDC Fig. D | 12 | **360.00** |




## RETORT RING

- Strong circular mild steel ring with 6 mm diameter stem
- Open bosshead fitted with thumb screw to accept rods from 8 mm to 15 mm diameter

| Product Code | Description | Size in Inches | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|---|
| LARR8888003 | Retort Ring with bosshead | 3 | 6 | **335.00** |
| LARR8888004 | Retort Ring with bosshead | 4 | 6 | **425.00** |



## RETORT BASE

- Superior Heavy duty steel alloy stand with rubber linning on a shorter side gives extra stability
- With lead-free powder coating

| Product Code | Description | Size Inches | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|---|
| LARB8888H06 | Retort base, Heavy | 6" x 4" | 6 | **740.00** |
| LARB8888H08 | Retort base, Heavy | 8" x 5" | 6 | **880.00** |
| LARB8888H10 | Retort base, Heavy | 10" x 6" | 6 | **1485.00** |



## ROD FOR RETORT BASE

- With stainless steel Grade 201

| Product Code | Description | Approx O.D. x Height mm | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|---|
| LARS8888500 | Retort Rod (SS Grade 201) | 12 x 500 | 2 | **520.00** |
| LARS8888600 | Retort Rod (SS Grade 201) | 12 x 600 | 2 | **630.00** |
| LARS8888750 | Retort Rod (SS Grade 201) | 12 x 750 | 2 | **720.00** |





## TEST TUBE STAND

- It is made of Aluminum sheet, Z type, new design, single piece fabrication
- One row of holes of 30 mm diameter, the second row of holes of 25 mm diameter and third row of hole of 16 mm diameter
- This aluminium Z shape design is Coated with lead free powder coating make it corrosion resistant

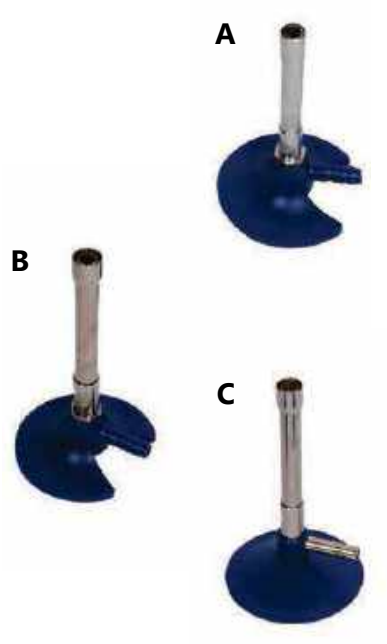
| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LATS8888H19 | Z' Shape Test Tube Stand, Aluminum, 19 hole assorted | 6 | **545.00** |
| LATS8888H25 | 'Z' Shape Test tube stand, 25 hole for 16mm tube | 6 | **545.00** |



## TEST TUBE HOLDER

- A pair of spring strip of hard rolled stainless steel, mounted in wooden handle in cross-scissor shape, and accepts tubes of diameter 12-43 mm.
- Overall length about 225mm

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LATH8888000 | Test tube holder, cross pattern, Stainless steel | 24 | **235.00** |




## BURNERS

- Bunsen Burner 13mm/11mm ideal for use with natural gas and L.P.G.
- Nickel-plated brass burner tube with Rotatable air regulator
- Enamelled Zinc pressure die casted base
- Base diameter 80 mm

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LABR8888Z11 | Bunsen burner, Zinc PDC base with 11 mm brass pipe for L.P.G. Fig. A | 2 | **1020.00** |
| LABR8888Z13 | Bunsen burner, Zinc PDC base with 13 mm brass pipe for L.P.G. Fig. B | 2 | **1020.00** |
| LABR8888013 | Burner, sheet metal base with 13 mm pipe, for L.P.G. Fig. C | 2 | **815.00** |

# SPATULAS

- Made of stainless steel grade 202
- Spatulas are used for measuring solids moving objects and scraping material out of beakers

| Product Code | Description | Size in Inches | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|---|
| LACS8888006 | Chattaway Spatula | 6 | 20 | **85.00** |
| LACS8888008 | Chattaway Spatula | 8 | 20 | **95.00** |
| LASL8888C08 | Micro Chattaway Spatula | 8 | 20 | **90.00** |
| LASC8888M06 | Micro Scoop | 6 | 10 | **75.00** |
| LASC8888SM6 | Semi Micro Spatula | 6 | 10 | **110.00** |
| LASL8888075 | Big Spoon Spatula | 7.5 | 10 | **160.00** |
| LASL8888009 | Big Spoon Spatula | 9 | 10 | **175.00** |
| LASP8888B06 | Both side flat | 6 | 20 | **90.00** |
| LASP8888B08 | Both side flat | 8 | 20 | **120.00** |
| LASP8888004 | One end flat and one end Spoon | 4 | 50 | **70.00** |
| LASP8888006 | One end flat and one end Spoon | 6 | 50 | **75.00** |
| LASP8888008 | One end flat and one end Spoon | 8 | 50 | **110.00** |
| LASP8888010 | One end flat and one end Spoon | 10 | 50 | **165.00** |
| LASP8888012 | One end flat and one end Spoon | 12 | 50 | **195.00** |
| LASO8888W04 | Ointment Spatula | 4 | 10 | **205.00** |
| LASO8888W06 | Ointment Spatula Wooden Handle | 6 | 10 | **225.00** |
| LATG8888S06 | Ointment Spatula Forged Stainless Steel | 6 | 10 | **445.00** |
| LASL8888P06 | Pointer Spatula | 6 | 10 | **120.00** |
| LASC8888165 | 165 mm Scoop | 6.5 | 10 | **110.00** |
| LASL8888510 | Big Spoon Spatula | 10 | 10 | **310.00** |




* For products listed on the above table use HSN code 90189022



## FORCEPS POINTED

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LAFP8888004 | Forceps, Pointed dissecting, 4″ | 10 | **125.00** |
| LAFP8888005 | Forceps, Pointed dissecting, 5″ | 10 | **170.00** |
| LAFP8888006 | Forceps, Pointed dissecting, 6″ | 10 | **205.00** |



## FORCEPS PTFE POINTED

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LAFPP8888004 | Forceps, PTFE, Pointed end, 4″ | 10 | **1775.00** |
| LAFPP8888006 | Forceps, PTFE, Pointed end, 6″ | 10 | **2285.00** |



## FORCEPS BLUNT DISSECTING

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LAFB8888005 | Forceps, Blunt dissecting, 5″ | 10 | **185.00** |
| LAFB8888006 | Forceps, Blunt dissecting, 6″ | 10 | **195.00** |
| LAFB8888008 | Forceps, Blunt dissecting, 8″ | 10 | **270.00** |



## FORCEPS PTFE BLUNT

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LAFBP8888004 | Forceps, PTFE, Blunt end, 4″ | 10 | **1775.00** |
| LAFBP8888006 | Forceps, PTFE, Blunt end, 6″ | 10 | **2285.00** |



## WIRE GAUGE

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LAWG8888C06 | Wire Gauge with Ceramic center 5″ x 5″ | 10 | **150.00** |
| LAWG8888C05 | Wire Gauge with Ceramic center 6″ x 6″ | 10 | **120.00** |



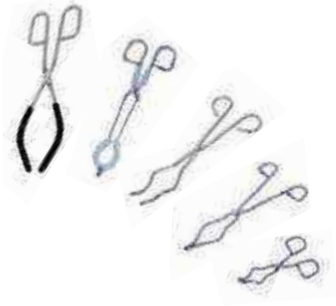
## TRIANGULAR TRIPOD

| Product Code | Description | Case Lot No. | Price / Piece ₹ |
|---|---|---|---|
| LATT8888200 | Triangular Tripod, SS, 200 x 125 mm | 2 | **715.00** |

BOROSIL®

# Laboratory Accessories

Tongs



Clamp with PVC Coated Prong



Clamp



Clamp with Bosshead



Burette Clamp



Boss Head



Retort Ring & Test Tube Holder



Retort Base



Rod For Retort Base



Z Shape Test Tube Stand



Burner



Spatula



LABQUEST BY BOROSIL®

# Laboratory Equipment

LabQuest by Borosil are products that meet Borosil's high standards of reliability, performance and value.

All products are backed by Borosil's robust service and after sale support.

## Manufacturers of Laboratory Equipment

SMART

RUGGED

PRACTICAL



- KJELDHAL SYSTEM
- COD DIGESTERS
- FAT DETERMINATION APPARATUS
- WATER DISTILLATION UNITS
- CONTROLLED HEATING MANTLES
- STIRRERS
- DRY BATH
- LABWARE DRYER
- VORTEX MIXERS
- CENTRIFUGE
- SHAKERS
- CHILLER
- VACCUM PUMP
- TUBE DISC ROTATORS
- TUBE ROLLERS
- MICROPIPETTES
- BOTTLE TOP DISPENSERS
- DIGITAL BURETTE



Kjeldahl

# Magnus Digesters

Automatic Kjeldahl Digestion unit with 8 / 12 / 20 position aluminium heating block that offers excellent thermal homogeneity and stability.



## Technical Data & Ordering Information

| Model Name | KBD083 | KBD123 | KBD203 |
|---|---|---|---|
| Type | Block Digester | Block Digester | Block Digester |
| No. of positions | 8 | 12 | 20 |
| Tube capacity (ml) | 250 / 400 | | |
| Temperature Range | Ambient to 470°C | | |
| Timer Range | 1-300 mins | | |
| Temperature Precision | ±1°C | | |
| Ramp and Hold | upto 4 | | |
| Presets | upto 50 | | |
| Auto scrubber ON/OFF | Yes | | |
| PID control | Yes | | |
| Autolift | Yes | | |
| Auto OFF after achieving set time | Yes | | |
| Temperature Calibration | Yes, single and two point | | |
| PC & Printer Connectivity | Yes, upgradable | | |
| Display | Graphical LCD | | |
| Body | Stainless steel with control pannel of FRP | | |
| Current Consumption | 6A | 8A | 12A |
| Dimensions (W x D x H) | (416 x 554 x 595) mm | | (410 x 585 x 735) mm |
| Power Consumption | 1400W | 1600W | 2800W |
| HSN Code | 84790000 | | |
| Ordering Code | BLFAKBD08300000000 | BLFAKBD12300000000 | BLFAKBD20300000000 |
| **Prices / Piece** | **On request** | | |

Kjeldahl

# Oracle Digesters

Kjeldahl Digestion unit with 6 / 8 / 12 position aluminium heating block that offers excellent thermal homogeneity and stability.



Technical Data & Ordering Information

| Model Name | KBD062 | KBD082 | KBD122 |
|---|---|---|---|
| Type | Block Digester | Block Digester | Block Digester |
| No. of positions | 8 | 8 | 12 |
| Tube capacity (ml) | 250 | | |
| Temperature Range | Ambient to 470°C | | |
| Timer Range | 1-300 mins | | |
| Temperature Precision | ±1°C | | |
| Ramp and Hold | upto 4 | | |
| Presets | upto 99 | | |
| Auto scrubber ON/OFF | Yes | | |
| PID control | Yes | | |
| Autolift | No | | |
| Auto OFF after achieving set time | Yes | | |
| Temperature Calibration | Yes, single and two point | | |
| PC & Printer Connectivity | Yes, | | |
| Display | Graphical LCD | | |
| Body | Stainless steel with control pannel of FRP | | |
| Current Consumption | 6A | 6A | 8A |
| Dimensions (W x D x H) | (414 x 450 x 665) mm | (416 x 554 x 595) mm | |
| Power Consumption | 1400W | 1600W | |
| HSN Code | 84790000 | | |
| Ordering Code | BLFAKBD06200000000 | BLFAKBD08200000000 | BLFAKBD12200000000 |
| **Prices / Piece** | **On request** | | |

## Optional Accessories

| Description | Ordering Code | Price / Piece |
|---|---|---|
| Viton Rubber Tube -10mmIDx14mmOD - 1Mtr | BLA0VRT10D0014DBLK | 1890.00 |
| Teflon Fume Cap ACCS ( Case Lot - 01 No) | BLAAFUT100PTFE1651 | 1050.00 |
| KBD123 Test Tube Holder ACCS | BLAAKBD08320000000 | 10500.00 |
| KBD083 Test Tube Holder ACCS | BLAAKBD12320000000 | 12600.00 |
| KBD203 Test Tube Holder ACCS | BLAAKBD20320000000 | 15120.00 |
| KBD083 Fume Extractor ACCS | BLAAKBD08330000000 | 19320.00 |
| KBD123 Fume Extractor ACCS | BLAAKBD12330000000 | 25620.00 |
| KBD 203 Fume Extractor ACCS | BLAAKBD20330000000 | 28140.00 |
| KBD080 Fume Extractor Glass ACCS | BLA0FUTKBD080D2510 | 7140.00 |
| KBD200 Fume Extractor Glass ACCS | BLA0FUTKBD200D2510 | 8400.00 |
| KBD082 Cooling Tray ASM ACCS | BLAAKBD08250000000 | 3990.00 |
| KBD123 Cooling Tray ASM ACCS | BLAAKBD12350000000 | 5040.00 |
| KBD203 Cooling Tray ASM ACCS | BLAAKBD20350000000 | 6300.00 |
| 250 ml Borosilicate Test Tube ASM (Case lot-5) | BLMATTB01041250000 | 11340.00 |
| Quartz Test Tube 250ml ASM (Case lot-2) | BLGATTQ01041250000 | 10920.00 |
| 400ml Borosilicate Test Tube ASM (Case lot-5) | BLAATTB01050400001 | 13650.00 |

# Fume Scrubber

Safe, zero exposure & high capacity
fume scrubber for Kjeldahl digestion systems




## Technical Data & Ordering Information

| Model Name | K 𝔏C010 | K 𝔏C020 |
|---|---|---|
| Current | 1A | 1A |
| Pump delivery Rate | 28 Ltr/Min | 45 Ltr/Min |
| Dimensions (WxDxH) | (445 × 375 × 460) mm | |
| HSN Code | 84790000 | |
| Ordering Code | BLFAKSC01000000000 | BLFAKSC02000000000 |
| **Prices / Piece** | **On request** | |

## Optional Accessories

| Model Name | K 𝔏C010 | Prices / Piece |
|---|---|---|
| Silicon Transt Tube-8MMIDX10MMOD - 1Mtr | BLA0STT8D00012TRNP | **840.00** |
| Viton Rubber Tube-10MMIDx14MMOD - 1Mtr | BLA0VRT10D0014DBLK | **1,890.00** |
| KSC Condenser V2 ASM | BLAAFUTV2KSCCD2932 | **4,200.00** |
| KSC Carbon Bottle ASM | BLAACRB02020018000 | **3,360.00** |
| 2L Reagent bottle - 1500030 ASM | BLA0BGW10001500030 | **4,620.00** |

Kjeldahl

# Magnus Distillation System

Smart, efficient distillation systems for labs. Excellent value for money with high reliability and advance performance.



Technical Data & Ordering Information

| Model Name | KDI050 |
|---|---|
| Steam addition | Automatic |
| Distilled water addition | Automatic |
| Alkali addition | Automatic |
| Boric acid addition | Automatic |
| Tube Drain | Automatic |
| Display | 7" colored touch screen |
| Tube Capacity (ml) | 250 / 400ml |
| Steam power (Adjustable) | 10-100% |
| Minimum distillation time (mins) | 5 |
| Reagent level sensor | Yes |
| Anytime alkali addition | Yes |
| Tube error detection | Yes |
| Door close sensor | Yes |
| Process resume from stop | Yes |
| One point alkali and distilled water pump | Yes |
| Two point calibration for acid pump | Yes |
| Real time monitoring of process parameter | Yes |
| SELV protection | Yes |
| Programs | 40 preset, 30 user editable |
| PC Connectivity | Yes |
| Nitrogen recoveryNitrogen recovery | >99.5% |
| Nitrogen reproducibility | ±1 % |
| RSD | <1% |
| LOD | 1-200mg with of =0.1mg of Nitrogen |
| Current Consumption | 10A |
| Power consumption | 1500 W |
| Dimension (L × B × H) mm | (480 × 470 × 820) mm |
| HSN Code | 84790000 |
| Ordering Code | BLFAKDI05000000000 |
| **Price / Piece** | **On request** |

Kjeldahl

# Oracle Distillation System

Smart, efficient distillation systems primarily for kjeldahl analysis with simple and reliable features.



Technical Data & Ordering Information

| Model Name | KDI040 |
|---|---|
| Steam addition | Automatic |
| Distilled water addition | Automatic |
| Alkali addition | Automatic |
| Boric acid addition | Automatic |
| Display | LCD |
| Tube Capacity (ml) | 250 / 400ml |
| Steam power (Adjustable) | 25%-100% |
| Minimum distillation time (mins) | 5 |
| Reagent level sensor | Yes |
| Anytime alkali addition | Yes |
| Tube error detection | Yes |
| Door close sensor | Yes |
| Process resume from stop | Yes |
| One point alkali and distilled water pump | Yes |
| Two point calibration for acid pump | Yes |
| Real time monitoring of process parameter | Yes |
| SELV protection | Yes |
| User Editable Programs | 40 preset, 30 user editable |
| PC Connectivity | Yes |
| Nitrogen recovery | >99.5% |
| Nitrogen reproducibility | ±1 % |
| RSD | <1% |
| LOD | 1-200mg with of =0.1mg of Nitrogen |
| Current Consumption | 5.5A |
| Power consumption | 1000 W |
| Dimension (L × B × H) mm | (650 × 350 × 725) mm |
| HSN Code | 84790000 |
| Ordering Code | BLFAKDI05000000000 |
| **Price / Piece** | **On request** |

# Accessories

## Magnus Kjeldahl Distillation / Oracle Kjeldahl Distillation

| Description | Ordering Code | Price / Piece |
|---|---|---|
| Silicon Transt Tube-8mmidx10mmod - 1mtr | BLA0STT8D00012TRNP | **840.00** |
| Clear Braided PVC Hose Pipe ACCS - 1Mtr | BLA0PIPPVC0HOS00CB | **630.00** |
| KDI PTFE Tube - 10mm OD X 08mm ID -1Mtr | BLA0TUB000PTFE1008 | **2100.00** |
| KDI FLOW SWITCH ASM ACCS | BLAAKDI05010000001 | **4200.00** |
| KDI Drip Tray ASM | BLA0KDI000DRP0TRAY | **3360.00** |
| Oven Mittes - KDI ASM | BLA0OVM000KDI00000 | **1050.00** |
| KDI PP Jerry Can ACCS | BLA0JCNPP00000005L | **380.00** |



# Classical Disitillation Unit

Safe, simple, efficient distillation systems for labs



## Technical Data & Ordering Information

| Model Name | CKD015 | CKD065 |
|---|---|---|
| No. of positions | 1 | 6 |
| Flask Capacity | 500 ml Kjeldahl Flask. Also compatible with 800 ml Kjeldahl Flask | |
| Element Temperature | 450°C | |
| Temperature regulators | 1 | 6 |
| Display | LED Display with time, safe temperature & process status | |
| Timer | 1-999 Minutes | |
| Power consumption | 150W | 900W |
| Electrical regulation | 0.65A | 3.9A |
| HSN Code: | 84198990 | |
| Ordering Code | BLFACKD01500000000 | BLFACKD06500000000 |
| **Prices / Piece** | **54,210.00** | **On Request** |

## Accessories

| Model Name | Ordering Code | Price / Piece |
|---|---|---|
| Graham Condenser 200mm Jacket ACCS | BLA0BGW200KJDLGHM0 | **2,520.00** |
| CLASSICAL KJELDHAL SPLASH HEAD-2429 ACCS | BLA0KSH24291926CKJ | **2,310.00** |
| CKD065 without Stand ASM | BLAACKD06500000001 | **53,760.00** |
| CKD065 with Stand ASM | BLAACKD06500000000 | **68,880.00** |
| CKD015 Stand ASM | BLAHCKD01510000000 | **3,570.00** |

Note : All accessories are provided by default with the unit

# Alcohol Distillation Unit with Chiller

Smart way to analyse alcohol content in sample. Quick distillation saves time A chiller gives effective condensation and helps detect close to accurate alcohol content.





## Technical Data & Ordering Information

| Model Name | KDI040 |
|---|---|
| Tube capacity (ml) | 250 ml/ 400 ml |
| Steam addition | Automatic |
| Display | 24 × 7 LCD |
| Cooling water flow rate sensor | Yes |
| Drip tray | Yes |
| Visual reagent level warning | Yes |
| Steam power | Adjustable |
| Steam output regulation | 25-100% |
| Maximum distillation time (mins) | 20 mins |
| Tube error detection | Yes |
| Door close sensor | Yes |
| Control button | Rotary push button |
| Dimensions (W × D × H) | (380 × 350 × 725) mm |
| Current consumption (A) | 5.5 A |
| Power consumption (W) | 1000W |
| Voltage | 230- 50/ 60 Hz |
| HSN Code | 84198990 |
| Ordering Code | BLFAKDI04000000000 |
| **Prices / Piece** | **On request** |

## Technical Data & Ordering Info

| Model Name | CHL010 |
|---|---|
| Tank capacity | 10 L |
| Tank size (L × W × D) mm | (325 × 265 × 200) mm |
| Cooling capacity | 1000 W |
| Pump flow rate | 12.5 LPM |
| Display | LED |
| Temperature stability | ± 1.0°C |
| Temperature range | -10 to ambient |
| HSN Code | 84198990 |
| Ordering Information | BLFRCHL01000000000 |
| **Prices / Piece** | **On request** |

# COD Digestion Unit

Open Reflux COD Digesters-Ideal solutions for waste water analysis



## Technical Data & Ordering Information

| Model Name | COD082 | COD152 | COD080 | COD150 |
|---|---|---|---|---|
| Reflux Type | Open | | | |
| Positions | 08 Position | 15 Position | 08 Position | 15 Position |
| Capacity | 250 ml X 08 tubes | 250 ml X 15 tubes | 250 ml X 08 tubes | 250 ml X 15 tubes |
| Heating Block | Aluminium | | | |
| Temperature Range | Ambient to 180°C | | | |
| Temperature Accuracy | ±1°C | | ±10°C | |
| Display | Front GRP control panel with Graphic LCD | | LED | |
| Graphical representation of time and temp | Yes | | No | |
| Two point factory calibration | Yes | | | |
| PID autotune | Yes | | | |
| User presets | Yes | | | |
| Process Timer | 0-999 min | | | |
| Temperature Control | Yes with Set value and Present value | | | |
| Time Control | Yes with Set value and Present value | | | |
| Connectivity to Printer | Yes | | No | |
| Connectivity to PC | Yes | | No | |
| Power consumptions | 1400W | 1800 W | 1200W | 1600W |
| Current Consumption | 6 A | 8 A | 6 A | 8 A |
| Unit External Dimensions (WxDxH) | (414 x 414 x 283)mm | | (414 x 414 x 283)mm | |
| HSN Code | 84198990 | | | |
| Ordering Code | BLFACOD08200000000 | BLFACOD15200000000 | BLFACOD08000000000 | BLFACOD01500000000 |
| **Prices / Piece** | **On request** | | | |

| Description | Ordering Code | Pack Size | Prices / Piece |
|---|---|---|---|
| COD air condensers | BLMACND100 CODSAC00 | 5 | **8,540.00** |
| COD digestion vessels | BLMATUB100CODSGT20 | 5 | **11,310.00** |

Note : Digestion vessels and air condensers are provided by default with the unit

# Thermoreactor

Closed reflux COD digestor

Compact and Convenient



## Technical Data & Ordering Information

| Model Name | COD120 |
|---|---|
| Reflux Type | Sealing |
| Positions | 12 Position |
| Capacity | 16 mm × 100 mm vials |
| Heating Block | Aluminium |
| Temperature RangeTemperature Range | Ambient to 180°C |
| Temperature Accuracy | ±1°C |
| Display | LED |
| Process Timer | 0-999 min / Infinite |
| Temperature Control | Yes with Set value and Present value |
| Time Control | Yes with Set value and Present value |
| Transparent Lid | UV protection |
| Power consumptions | 200 W |
| Current Consumption | 1.5 A |
| Unit External Dimensions (WxDxH) | (275 × 185 × 150) mm |
| HSN Code | 84198990 |
| Ordering Code | BLFHCOD12000000000 |
| **Prices / Piece** | **45,197.50** |

## Technical Data & Ordering Info

| Description | Ordering Code | Pack Size | Prices / Piece |
|---|---|---|---|
| *Culture Tube round bottom 16D 100 len ACCS | BLAACTB0101600010 | 12 | **On request** |

* Subject to availability.To be procured separately

# Fat Determination by Soxhlet Extraction

Delivering classical solutions with modernized approach for fat extraction



## Technical Data & Ordering Information

| Model | SOX012 | SOX015 | SOX062 | SOX065 |
|---|---|---|---|---|
| Positions | 1 | | 6 | |
| Flask Capacity (ml) | 250 | 500 | 250 | 500 |
| Extractor capacity (ml) | 100 | 200 | 100 | 200 |
| Display Timer | 1-999 min | | | |
| Dimension (W × D × H) mm | 200 × 300 × 800 | | 1050 × 300 × 800 | |
| Weight (Kgs) | 7 | | 15 | |
| Power (W) | 400 W | | 2400 W | |
| HSN Code | 84198990 | | | |
| Ordering Code | BLFRSOX 01200000000 | BLFRSOX 01500000000 | BLFRSOX 06200000000 | BLFRSOX 06500000000 |
| **Price / Piece** | **On request** | | | |

## Accessories

| Model | Ordering Code | Price / Piece |
|---|---|---|
| SOX012 with Stand ASM | BLAASOX01210000000 | **13,020.00** |
| SOX015 with Stand ASM | BLAASOX01510000000 | **13,440.00** |
| SOX062 without Stand ASM | BLAASOX06200000000 | **60,000.00** |
| SOX062 with Stand ASM | BLAASOX06200000001 | **78,000.00** |
| SOX065 without Stand ASM | BLAASOX06500000000 | **60,000.00** |
| SOX065 with Stand ASM | BLAASOX06500000001 | **78,000.00** |
| SOXHLET 100 ML EXTRACTOR | BLA0SOXEXT10044327 | **5,040.00** |
| SOXHLET 200ML EXTRACTOR | BLA0SOXEXT20048394 | **5,670.00** |
| SOXHLET CONDENSER FOR 100ML EXT V2 ACCS | BLA0CON000SOX100V2 | **3,780.00** |
| SOXHLET CONDENSER FOR 200ML EXT V2 ACCS | BLG0CON000SOX200V2 | **5,040.00** |

# Water Baths

Borosil Labquest Premium range of circulating water baths are an ideal choice when temperature uniformity and control are particularly critical along with Data logging connectivity.

## Premium Series - Circulating Water Bath

Labquest Premium baths provide more uniform heat convection.
These Heating baths are particularly useful in Routine lab applications, Coliform determinations, Sample thawing, Bacteriological examinations, Microbiological assays, Cell cultivation.



### Technical Data & Ordering Information

| Model name | WBP012 | WBP015 | WBP020 |
|---|---|---|---|
| Nominal Capacity | 12L | 15L | 20L |
| Working Temperature Range | Ambient +5 to 99°C | Ambient +5 to 99°C | Ambient +5 to 99°C |
| Temperature Accuracy at 37°C | ±0.2°C | ±0.2°C | ±0.2°C |
| Circulation | By PTFE Stir Bar | By PTFE Stir Bar | By PTFE Stir Bar |
| Interior Dimension (L x B x H) in mm | 330 x 300 x 150 mm | 330 x 300 x 200 mm | 500 x 300 x 150 mm |
| Exterior Dimension (L x B x H) in mm | 375 x 325 x 450 mm | 355 x 325 x 510 mm | 550 x 350 x 450 mm |
| Electrical Requirements | 6A | 6A | 9A |
| Power Consumption | 900 W | 900 W | 2000 W |
| External Temperature Probe | PT1000 | PT1000 | PT1000 |
| USB Interface - Data Logging | USB | USB | USB |
| Lid Type | SS Lid with 6 position Concentric Rings | PC Lid | SS Lid with 8P Lid position Concentric Rings |
| HSN Code | 84198990 | | |
| Ordering Code | BLFHWBP01200000000 | BLFHWBP01500000000 | BLFHWBP0200000000 |
| **Prices / Piece** | **63,000.00** | **68,300.00** | **89,300.00** |

### High Capacity Baths

| Model name | WBP024 | WBP035 | WBP060 |
|---|---|---|---|
| Nominal Capacity | 24L | 35L | 60L |
| Working Temperature Range | Ambient +5 to 99°C | Ambient +5 to 99°C | Ambient +5 to 99°C |
| Temperature Accuracy at 37°C | ±0.2°C | ±0.2°C | ±0.2°C |
| Circulation | By PTFE Stir Bar | By PTFE Stir Bar | By PTFE Stir Bar |
| Interior SS304 Dimension (LxBxH) | 500 x 300 x 200 mm | 650 x 350 x 150 mm | 650 x 350 x 200 mm |
| Exterior SS304 Dimension (LxBxH) | 550 x 335 x 510 mm | 675 x 375 x 450 mm | 675 x 375 x 475 mm |
| Electrical Requirements | 12A | 15A | 20A |
| Power Consumption | 2200W | 3000W | 5000W |
| External Temperature Probe | PT1000 | PT1000 | PT1000 |
| USB Interface - Data Logging | USB | USB | USB |
| Lid Type | SS Lid with 8 position Concentric Rings | SS Canopy | SS Canopy |
| HSN Code | 84198990 | | |
| Ordering Code | BLFHWBP02400000000 | BLFHWBP03500000000 | BLFHWBP0600000000 |
| **Prices / Piece** | **On Request** | **On Request** | **On Request** |

# Water Baths

The Elemental Series of general purpose Water Baths offers variety of sizes to meet all your needs and is ideal for lab applications.

## Elemental Series - Constant Temperature Baths

Elemental Series Water Baths can be used for a wide variety of purposes, including routine laboratory tasks, holding samples at a constant temperature, incubation, materials testing, corrosion testing, temperature control of cultures, thermal testing of food and dental applications. In this series temperature uniformity is obtained by convection gradually.

**Also available in WLS series w ith overhead stirring**



## Technical Data & Ordering Information

| Model name | WLC005 | WLC012 | WLC020 |
|---|---|---|---|
| Nominal Capacity | 5L | 12L | 20L |
| Working Temperature | Ambient + | Ambient + | Ambient + |
| Range | 5 to 99°C | 5 to 99°C | 5 to 99°C |
| Temperature Accuracy at 37°C | ±0.5°C | ±0.5°C | ±0.5°C |
| Circulation | | By Convection Only | |
| Interior Dimension (L x B x H) in mm | 300 x 152 x 150 | 330 x 300 x 150 | 500 x 300 x 150 |
| Exterior Dimension (L x B x H) in mm | 325 x 180 x 300 | 375 x 325 x 300 | 550 x 350 x 300 |
| Power Consumption | 2A, 230V, 400W | 4A, 230V, 900W | 9A, 230V, 1600W |
| HSN Code | | 84198990 | |
| Ordering Code | BLFHWLC00500000000 | BLFHWLC01200000000 | BLFHWLC0200000000 |
| **Prices / Piece** | **35,700.00** | **42,900.00** | **50,000.00** |

## Optional Accessories

| Model | Ordering Code | Suitable For | Prices / Piece |
|---|---|---|---|
| **5 L** | | | |
| 3 Hole SS LID Assembly | BLAHWLC005LID00003 | WLC005 | **2,700.00** |
| 5L Polycarbonate LID Assembly | BLAHWLC005PCLID000 | WLC005 | **4,100.00** |
| **12 L** | | | |
| 6 Hole SS LID Assembly | BLAHWLC012LID00006 | WLC012 | **3,700.00** |
| 12/15 Polycarbonate LID Assembly | BLAHWLC012PCLID000 | WLC012 | **4,900.00** |
| **20 L** | | | |
| 8 Hole SS LID Assembly | BLAHWLC020LID00008 | WLC020 | **5,100.00** |
| 12 Hole SS Lid Assembly | BLAHWBA02000000012 | WLC020 | **8,700.00** |
| 20 Ltr Polycarbonate Lid ASM | BLAHWBA020CAPPC000 | WLC020 | **6,800.00** |
| Ball Shield Anti-evaporation Spheres (Ø37mm X 500 nos) | BLAHWLS020BALLID00 | All Baths | **7,900.00** |

# Ultrasonic Baths

Ultrasonic Bath offers gentle effective cleaning action ensuring that no contaminants get carried over from the previous process.

## Sonicator Bath

Ultrasonic Baths use sound waves and liquid to clean small objects. Borosil Labquest digital series of Ultrasonic cleaners come in four different sizes. These stainless steel cleaners feature a bright LED display for time and temperature and easy push-button control along with degs functions.



## Technical Data & Ordering Information

| Model Name | UCB025 | UCB050 | UCB100 | UCB200 |
|---|---|---|---|---|
| Capacity | 1.5L | 5L | 10L | 20L |
| Working Temperature Range | | Ambient +5 °C to 80°C | | |
| Frequency | | 40kHz | | |
| Time setting | | 1- 99 mins | | |
| Interior Dimension (L, B, H) in mm | 150 x 140 x 100 | 300 x 155 x 150 | 300 x 240 x 150 | 500 x 300 x 150 |
| Exterior Dimension (L, B, H) in mm | 190 x 170 x 220 | 330 x 180 x 330 | 330 x 270 x 330 | 550 x 330 x 330 |
| Ultrasonic Power | 50 W | 150W | 200W | 400W |
| Heater Power | 100W | 300W | 500W | 500W |
| HSN Code | 84798999 | | | |
| Ordering Code | LQLEUCB02500000000 | LQLEUCB05000000000 | LQLEUCB10000000000 | LQLEUCB20000000000 |
| **Prices / Piece** | **28,100.00** | **43,400.00** | **71,500.00** | **92,500.00** |

# Oil Baths

Precision Oil bath build in 100% SS offers controlled heating upto 240 °C



## Still & Stirred Oil Baths

Precision oil baths for controlled heating & tempering applications with a temperature accuracy of + 1°C and a built in 100% SS construction. Baths are insulated for user protection and equipped with overshoot control. Baths can also be used with water.

### Technical Data & Ordering Information

| Model name | OMC250 | OMC010 |
|---|---|---|
| Working Temperature Range | Ambient +5 °C to 240°C | |
| Circulation | Convection | |
| Nominal Capacity | 750ml | 3057ml |
| RB Flask | 250ml | 1000ml |
| Interior Dimension (D X H) in mm | 120 x 86 | 182 x 142 |
| Exterior Dimensions (L x B x H) in mm | 203 x 169 x 209 | 273 x 240 x 263 |
| Power Consumption | 300W | 800W |
| HSN Code | 84198990 | |
| Ordering Code | BLFHOMC25000000000 | BLFHOMC01000000000 |
| **Prices / Piece** | **28,900.00** | **33,600.00** |

*Interior tanks are cylindrical in shape.

### Technical Data & Ordering Information

| Model name | OMS250 | OMS010 | OMS020 |
|---|---|---|---|
| Working Temperature Range | Ambient +5 °C to 240°C | | |
| Circulation | PTFE Stir Bar | | |
| Nominal Capacity | 750ml | 3057ml | 7500ml |
| RB Flask | 250ml | 1000ml | 2000ml |
| Interior Dimension (D X H) in mm | 120 x 86 | 182 x 142 | 217x 209 |
| Exterior Dimensions (L x B x H) in mm | 203 x 169 x 209 | 273 x 240 x 263 | 302 x 280 x 410 |
| Power Consumption | 300W | 800W | 1500W |
| HSN Code | 84198990 | | |
| Ordering Code | BLFHOMC25000000000 | BLFHOMC01000000000 | BLFHOMC01000000000 |
| **Prices / Piece** | **32,500.00** | **37,200.00** | **81,400.00** |

# Data Logger

## Measure & Record progress of set parameters




Labquest instruments with USB connectivity e.g. Industrial Stirrers and Premium Water Baths facilitate data logging. Borosil Data Logger continuously monitors and records the activity performed by connected instruments over a period of time. Users can take the print out for specified period and operation. PNP010 a reliable, cost and time-efficient monitoring solution for any measuring & recording progress of set parameters offering key advantages by providing high accuracy and ease of use.

## Key Features

- Records user level activity with Instrument attached
- Login feature supports administrator and up to 99 users with display 128x64 GLCD
- Any time print option for logged data records
- Customizable print format with company name, lab/department name and process parameters

## Technical Data & Ordering Information

| Ordering Code | Prices / Piece |
|---|---|
| BLFAPNP0100000000 | **On request** |

# Water Distillation Unit

General laboratory applications requiring higher ionic purity, samples & buffer preparations



## On Demand Single Distillation Unit (SDU)

Single Stage Distillation units provide automatic working for getting pure water by distillation method capable of removing a wide spectrum of impurities. Raw water is boiled to produce steam which is taken to a condenser where it returns to the liquid state, free of impurity. The impurities remain in the boiler and can be removed periodically with the help of in built descaling or cleaning guide.

### Technical Data & Ordering Information

| Model name | SDU1500 | SDU2500 | SDU4000 |
|---|---|---|---|
| Capacity Distilled Water Output | 1.5 LPH | 2.5 LPH | 4 LPH |
| Minimum cooling water requirement (Ltr/min) | 1 | 1.5 | 2 |
| Heater | Quartz | Quartz | Quartz |
| Boiler | Boro 3.3 | Boro 3.3 | Boro 3.3 |
| Condenser | Boro 3.3 | Boro 3.3 | Boro 3.3 |
| Biological Activity | Pyrogen Free | Pyrogen Free | Pyrogen Free |
| Conductivity S/cm* | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 |
| Power consumption (kw) | 1.5kW | 2.5kW | 3.5W |
| Voltage (V) | 230V | 230V | 230V |
| Dimensions (L x B x H) in mm | 650 x 255 x 440 | | |
| HSN Code | 84198990 | | |
| Ordering Code | BLFRSDU15000000000 | BLFRSDU25000000000 | BLFRSDU40000000000 |
| **Prices / Piece** | **43,600.00** | **60,800.00** | **67,600.00** |

* Inlet water TDS < 100 ppm

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified. Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20deg C.

# Water Distillation Unit

General laboratory applications requiring higher ionic purity, samples & buffer preparations

## On Demand Double Distillation Unit (DDU)

Double Stage Distillation Units provide automatic working for getting pure water by distillation method capable of removing a wide spectrum of impurities. Raw water is boiled to produce steam which is taken to a condenser where it returns to the liquid state, free of impurity. The impurities remain in the boiler and can be removed periodically with the help of in built descaling or cleaning guide.



## Technical Data & Ordering Information

| Model name | DDU1500 | DDU2500 | DDU4000 |
|---|---|---|---|
| Capacity Distilled Water Output | 1.5 LPH | 2.5 LPH | 4 LPH |
| Minimum cooling water requirement (Ltr/min) | 1 | 1.5 | 2 |
| Heater | Quartz | Quartz | Quartz |
| Boiler | Boro 3.3 | Boro 3.3 | Boro 3.3 |
| Condenser | Boro 3.3 | Boro 3.3 | Boro 3.3 |
| Biological Activity | Pyrogen Free | Pyrogen Free | Pyrogen Free |
| Conductivity S/cm* | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 |
| Power consumption (kw) | 3 kW | 4.4 kW | 7 kW |
| Voltage (V) | 230V | 230V | 230V |
| Dimensions (L x B x H) in mm | 640 x 630 x 520 | | |
| HSN Code | 84198990 | | |
| Ordering Code | BLFRDDU150000000000 | BLFRDDU250000000000 | BLFRDDU400000000000 |
| **Prices / Piece** | **68,900.00** | **1,11,800.00** | **1,21,600.00** |

* Inlet water TDS < 100 ppm

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified. Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20deg C.

# Water Distillation Unit

Manufactured from quartz, providing quick & continuous purified water with smaller foot print in laboratories

## On Demand All Quartz Distillation Units

Borosil On Demand Water Distillation Units Single Stage & Two Stage provide automatic working for getting pure water or general lab water by distillation method capable of removing a wide spectrum of impurities.



Quartz Cabinet DDU

### Technical Data & Ordering Information

| Model name | Quartz DDU | Quartz Cabinet DDU |
|---|---|---|
| Capacity Distilled Water Output | 2.5 LPH | 2.5 LPH |
| Minimum cooling water requirement (Ltr/min) | 2 | 2 |
| Heater | Quartz | |
| Boiler | Quartz | |
| Condenser | Quartz | |
| Biological Activity | Pyrogen Free | |
| Conductivity S/cm* | <1 x 10-6 | |
| Power consumption (kw) | 4.4 kW | |
| Voltage (V) | 230V | |
| Dry Run Protection | Yes | |
| On Demand Output | Yes | |
| Storage Mode | NA | Yes |
| Auto Filling Reservoir | NA | Yes |
| Dispense rate (ml/min) | NA | 900 ml |
| HSN Code | 84194090 | |
| Ordering Code | BLFRQDD25000000000 | BLFRQCD25000000000 |
| **Prices / Piece** | **2,14,200.00** | **On Request** |

* Horizontal modes On Demand QDD

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified.Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20deg C. Conductivity values are affected by temperature and absorbed carbon dioxide quantity along with other contaminants from containers stored.

# Water Distillation Unit

Manufactured from quartz, providing quick & continuous purified water with smaller foot print in laboratories




## Mono Quartz Distillation Units (Manual)

These Innovative and compact vertical Distillation Units Made from Pure Silica - Quartz are ideal choice for getting single stage distilled water. It meets the standard of the analytical laboratory where purity of distilled water free from metallic ions and bacteria is important.

### Technical Data & Ordering Information

| Model name | 3363042 | 3363033 | 3363038 | 3364042 | 3364042 |
|---|---|---|---|---|---|
| Capacity Distilled Water Output | 2.5 LPH | 5 LPH | 10LPH | 2.5LPH | 5LPH |
| Minimum cooling water requirement (Ltr/min) | 1 | 2 | 2.5 | 1 | 2 |
| Heater | Quartz | Quartz | Quartz | Quartz | Quartz |
| Boiler | Quartz | Quartz | Quartz | Quartz | Quartz |
| Condenser | Boro 3.3 | Boro 3.3 | Boro 3.3 | Quartz | Quartz |
| Biological Activity | Pyrogen Free | Pyrogen Free | Pyrogen Free | Pyrogen Free | Pyrogen Free |
| Conductivity S/cm* | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 | <3 x 10-6 |
| Power consumption (kw) | 2.2 kW | 4.4kW | 8.8 kW | 2.2 kW | 4.4 kW |
| Voltage (V) | 230V | 230V | 440V - 3Phase | 230V | 230V |
| HSN Code | 841940901 | | | | |
| Ordering Code | BT533363042 | BT533363033 | BT533363038 | BT533364042 | BT533364033 |
| **Model Prices / Piece** | **41,900.00** | **79,400.00** | **1,81,400.00** | **72,400.00** | **1,38,800.00** |
| Accessory - DAPS Code | 3366342 | 3366333 | 3366338 | 3366442 | 3366433 |
| **DAPS Prices / Piece** | **14,600.00** | **16,300.00** | **30,200.00** | **14,600.00** | **16,200.00** |

* Inlet water TDS < 100 ppm

DAPS - The Unit provides for Automatic working of distillation unit by switching off the heaters in case water level falls below the heating coil, thereby safeguarding the heaters. The unit resumes distillation when water level is restored by pushing reset button on front panel. The water level sensor probe works on 12 V and hence is very safe to handle. The unit also comes with Buzzer. DAPS is unique for each model.

### Optional Accessories

| Description | Ordering Code | Prices / Piece |
|---|---|---|
| Quartz Boiler 2.5LPH | 363012 | **29,800.00** |
| Quartz Boiler 5LPH | 363032 | **58,600.00** |
| Quartz Boiler 10LPH | 363S02 | **1,02,700.00** |
| Borosil Condenser 2.5LPH | 362022 | **57,00.00** |
| Borosil Condenser 5LPH | 0363S00 | **19,400.00** |
| Borosil Condenser 10LPH | 0363S03 | **39,200.00** |
| Quartz Condenser 2.5LPH | 364023 | **29,600.00** |
| Quartz Condenser 5LPH | 364S01 | **68,000.00** |

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified. Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20° C.

# Water Distillation Unit

All quartz innovative & compact design offers consistent purified water in two distillation stages




## All Quartz Double Distillation Units

Quartz distillation units are manufactured from fused quartz tubes. The exceptionally high chemical purity and very low solubility of this material enables the production of very high performance system. The greatest possible attention has been taken for technical performance, simplicity of use and efficiency.

## Technical Data & Ordering Information

| Model name | 3365041 | 3365042 | 3365033 |
|---|---|---|---|
| Capacity Distilled Water Output | 1.5 LPH | 2.5 LPH | 5 LPH |
| Minimum cooling water requirement (Ltr/min) | 1 | 2 | 2.5 |
| Heater | Quartz | Quartz | Quartz |
| Boiler | Quartz | Quartz | Quartz |
| Condenser | Quartz | Quartz | Quartz |
| Biological Activity | Pyrogen Free | Pyrogen Free | Pyrogen Free |
| Conductivity S/cm* | <1 x 10-6 | <1 x 10-6 | <1 x 10-6 |
| Power consumption (kw) | 3 kW | 4.4kW | 8.8 kW |
| Voltage (V) | 230V | 230V | 440V - 3Phase |
| HSN Code | | 84194090 | |
| Ordering Code | BT533365041 | BT533365042 | BT533365033 |
| **Model Prices / Piece** | **1,18,200.00** | **2,12,800.00** | **3,77,000.00** |
| Accessory - DAPS | 3366541 | 3366542 | 3366533 |
| **DAPS Prices / Piece** | **15,500.00** | **16,200.00** | **30,600.00** |

* Inlet water TDS < 100 ppm

DAPS - The Unit provides for Automatic working of distillation unit by switching off the heaters in case water level falls below the heating coil, thereby safeguarding the heaters. The unit resumes distillation when water level is restored by pushing reset button on front panel. The water level sensor probe works on 12 V and hence is very safe to handle. The unit also comes with Buzzer. DAPS is unique for each model.

## Optional Accessories

| Description | Ordering Code | Prices / Piece |
|---|---|---|
| Quartz Boiler 1.5LPH | 362013 | **37,700.00** |
| Quartz Boiler 2.5LPH | 362014 | **38,400.00** |
| Quartz Boiler 5LPH | 0362S04 | **60,300.00** |
| Quartz Secondary Boiler - Condenser 1.5LPH | 362015 | **96,000.00** |
| Quartz Secondary Boiler - Condenser 2.5LPH | 362016 | **1,33,600.00** |
| Quartz Secondary Boiler - Condenser 5LPH | 0363S05 | **2,58,100.00** |
| Receiving Adapter with Spring | 362063 | **2,100.00** |
| Silicon "O" Ring | 362052 | **700.00** |

Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified. Conductivity specified applies for freshly prepared water in absence of Carbon Dioxide at 20° C.

# Laboratory Stirrers

Compact magnetic stirrer with digital display offering accurate speed, timer, temperature setting



## Magnetic Stirrers - Heat & Stir applications

These stirrers offer accurate, stable and highly-reproducible in various heating & stirring experiments involving low viscous fluids.

### Technical Data & Ordering Information

| Model name | HLS200 | MHPS550P Premier |
|---|---|---|
| Stirring Position | 1 | 1 |
| Max Capacity | 2L | 20L |
| Max Speed for $H_20$ | 1500 rpm | up to 2200 |
| Timer | 0 - 999 min OR Continuous | 0 - 999 min OR Continuous |
| Plate Temperature | Ambient +5 °C - 300 °C | Ambient +5 °C - 550 °C |
| Safe Temperature Setting | Yes | Yes |
| Hot Indicator when Plate is above 50 °C | Yes | Yes |
| Pulse Mode | NA | Yes |
| Display | LED Digital | Dual Set & Actual Temp, RPM & Time |
| Plate Material | SS | Ceramic |
| Power Consumption | 2Å, 230V, 325W | 5Å, 230V, 1000W |
| Magnetic Bar | 25 mm | 25 mm |
| Top Plate Dimensions (L x B) in mm | 150 x 155 | 180 x 180 |
| Product Dimensions (L x B x H) in mm | 260 x 190 x 155 | 313 x 212 x 110 |
| Protection Class | IP21 | IP21 |
| Supplied with | PT100 Probe only | PT1000 Probe & Stand |
| HSN Code | 84798200 | |
| Ordering Code | BLFHHLS20000000000 | 100MHPSO1055OP |
| **Prices / Piece** | **14500.00** | **50,000.00** |

### Optional Accessories

| Description | Ordering Code | Suitable for | Prices / Piece |
|---|---|---|---|
| PT100 DIN Connector | BLA0DIN00MX0005PIN | HLS200 | **On Request** |
| PT1000 Probe | 100MHPS01PT100 | MHPS550P Premier | **7880.00** |
| Probe Stand | 100MHPS01PS000 | MHPS550P Premier | **2000.00** |

* Note: 100MHPS0103500 model is also available, rirl stocks last. (P.O.R.)

# Stirrers - Max Stir

## Outstanding stirring for high-volume applications in process equipments with USB Data Logging option



### Industrial Max Stir MGS Series

Industrial Max-Stir are designed for chemical and biotechnical applications of all kinds that are within the field of quality insurance and pilot plant stations, it can also be integrated with high capacity process equipments, developed for highest demands, unbeatably strong, high stability with uncompromising continuous operation.

### Technical Data & Ordering Information

| Model name | MGS020 | MGS050 | MGS200 |
|---|---|---|---|
| Number of stirring positions | | 1 | |
| Stirring quantity | Upto 20 L | Upto 50 L | Upto 200 L |
| Motor Type | BLDC 15 motor | BLDC 30 motor | |
| Stirring bar length | 35 - 80 (in mm) | 80 - 120 (in mm) | 155 (in mm) |
| Material Housing | | 304 Stainless steel | |
| Display | Digital LCD Display | | |
| Speed range | 0 - 1000 rpm | 0 - 600 rpm | |
| Timer | (0 - 99:99 hrs:min) or continuous/infinite operation | | |
| Set-up plate dimensions in mm | 300 x 300 | 400 x 400 | 500 x 500 |
| Dimensions (L x B x H) mm | 300 x 390 x 110 | 400 x 490 x 110 | 500 x 590 x 110 |
| Weight of the Product | 12 Kgs | 14 Kgs | 25 Kgs |
| Weight / Load (it can Sustain) | 30 Kgs | 70 Kgs | 70Kgs |
| Process Equipments Indirect Load It can stir | Volumes up to 20L | Volumes up to 50L | Volumes up to 200L |
| Ramp Rate | Adjustable for different viscosity | | |
| USB Interface (Upgradable) | YES - Option to connect Labquest Data Logger & Printer | | |
| Permissible temperature | 5 °C to 40 °C | | |
| Max Current | 0.3 A | 0.5 A | |
| Motor rating output | 30W | 60W | |
| HSN Code | 90278090 | | |
| Ordering Code | BLFHMGS02000000000 | BLFHMGS05000000000 | BLFHMGS20000000000 |
| **Prices / Piece** | **On Request** | | |

# Stirrers

Compact multiposition magnetic stirrer with digital display offering accurate speed, timer, temperature setting

## Magnetic Stirrers with Heating - Multiple Position

Multi-position Hot Plate Magnetic Stirrer is used widely for liquid heating mixing parallel and series of experiments. It is the essential mixing instrument for biology, heredity, medicine and health, environmental protection and biochemistry laboratories.



MHPS 15P

### Technical Data & Ordering Information

| Model name | MHP S5P | MHP S10P | MHP S15P |
|---|---|---|---|
| Stirring Position | 5 | 10 | 15 |
| Plate Temperature | 120°C | 120°C | 120°C |
| Max Capacity | 5 x 250ml | 10 x 250 ml | 15 x 250 ml |
| Max Speed | 1500 rpm | 1500 rpm | 1500 rpm |
| Timer | 1-999 min | 1-999 min | 1-999 min |
| Motor Type | BLDC | BLDC | BLDC |
| Pulse Mode | Yes | Yes | Yes |
| Display | Digital | Digital | Digital |
| Plate Material | Stainless steel plate with silicone sheet | | |
| Power Consumption | 450W | 450W | 800W |
| Magnetic Bar | 25 mm | 25 mm | 25 mm |
| Top Plate Dimensions (L x B) in mm | 565 x 136 | 565 x 196 | 565 x 282 |
| Product Dimensions (L x B x H) in mm | 565 x 136 x 75 | 565 x 196 x 75 | 565 x 282 x 75 |
| Protection Class | IP42 | IP42 | IP42 |
| HSN Code | 84798200 | | |
| Ordering Code | 100MHPS0515000 | 100MHPS1015000 | 100MHPS1515000 |
| **Prices / Piece** | **52,700.00** | **73,400.00** | **1,00,500.00** |



**5 position**



**10 position**



**15 position**

# Hot Plates

Precise digital temperature control and timer function

## Rectangular Hot Plates

Labquest microprocessor PID controlled Hot Plates offers uniform & precise heating along with safe working. It finds applications in acid and base digestions, trace metal analysis, sample drying, general reagent heating, evaporation, cytological & histological studies. These products are widely used in industries such as chemicals, automobile & pharmaceutical laboratories.



HPL400 HPL020

## Technical Data & Ordering Information

| Model name | HPL020 | HPL030 | HPL400 |
|---|---|---|---|
| Max Capacity - Beaker | 500ml Beaker X 12 pc | 500ml Beaker X 18 pc | 2L Beaker |
| Max Plate Temperature | up to 300°C | | |
| Timer | Digital Timer | | |
| Display | LED Display | | |
| Plate Material | Aluminium | Aluminium | SS 304 Top Plate |
| Power Consumption | 2000W | 3000W | 400W |
| Top Plate Dimensions (L x B)mm | 300 x 450 | 450 x 600 | 155 x 150 |
| Product Dimensions (L x B x H) mm | 300 x 450 x 200 | 450 x 600 x 200 | 260 x 190 x 155 |
| HSN Code | 84798200 | | |
| Ordering Code | BLFHHPL02000000000 | BLFHHPL03000000000 | BLFHHPL40000000000 |
| **Prices / Piece** | **85,500.00** | **70,700.00** | **95,00.00** |

# Laboratory Stirrers

## Compact magnetic stirrer with digital display offering accurate speed, timer setting

### Magnetic Stirrers - Stir only applications

A magnetic stirrer is a laboratory device that employs a rotating magnetic field to cause a stir bar immersed in a liquid to spin very quickly, thus stirring it. It finds applications in chemistry & biology experiments involving Dilution, Maintaining suspensions, Homogenisation and Dissolution, Emulsions in a laboratory.

**MGS001**



**MS ONE**



**MS FOUR**



**MLS**



Technical Data & Ordering Information

| Model name | MGS001 | MS One | MS Four | MLS010 | MLS050 |
|---|---|---|---|---|---|
| Stirring Position | 1 | 1 | 4 | 1 | 1 |
| Max Capacity | upto 5L | 800ml | 4 x 400ml | 10L | 50L |
| Max Speed | 2200 RPM | 1500 RPM | 1200 RPM | upto1000 RPM | upto1000 RPM |
| Timer | 0-999 min | 1-99min | 1-99min | Continuous | Continuous |
| Pulse Mode | NA | Yes | Yes | NA | NA |
| Display | LED | Digital | Digital | LED | LED |
| Plate Material | SS304 | SS304 | SS304 | SS | SS |
| Type of Motor | AC | Motorless | Motorless | BLDC | BLDC |
| Slip Detection | NA | NA | NA | Yes | Yes |
| Power Consumption | 1Å, 230V, 25W | 1.5Å, 12V, 5W | 2Å, 9V, 13W | 1.5Å, 12V, 30W | 2Å, 12V, 60W |
| Magnetic Bar | 25mm | 25mm | 25mm | 25, 35, 50, 60 | 25, 35, 50, 60 |
| Top Plate Dimensions (L x B) in mm | 189 x 208 | 150 x 100 | 385 x 182 | 250 x 250 | 370 x 370 |
| Product Dimensions (L x B x H) in mm | 284 x 188 x 120 | 156 x 110 x 14 | 457 x 126 x 14 | 310 x 250 x 100 | 430 x 370 x 100 |
| Protection Class | IP21 | IP65 | IP65 | IP42 | IP42 |
| HSN Code | 90278090 | | | | |
| Ordering Code | BLFHMGS 00100000000 | 100MS0 00115000 | 100MS0 00412000 | BLFHML S01000000000 | BLFHML S05000000000 |
| **Prices / Piece** | **9,500.00** | **15,100.00** | **30,100.00** | **34,600.00** | **56,100.00** |

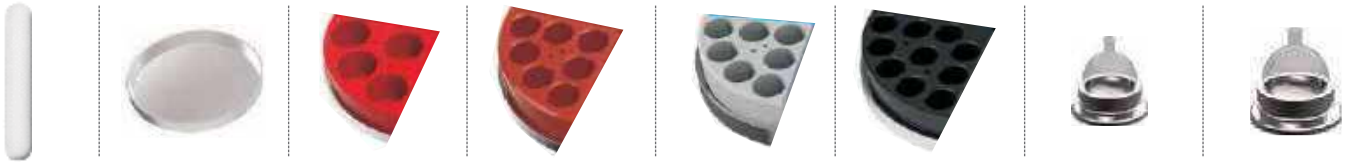
# Laboratory Stirrer Accessories

Aluminium Blocks & Stir Bars are basic accessaries that promote safe & better heat transfer while using RB Flask or Reaction Tubes on a Hot Plate

## Aluminum Heating Blocks

The aluminum heating reaction blocks provides safe working. The accessories blocks are used with various hot plate stirrers & suitably replace oil bath & heating mantles thus promoting safe laboratory working.

Magnetic stir bars in various sizes are also available.



## Technical Data & Ordering Information

| Model name | Ordering Code | Pack Size | List Price |
|---|---|---|---|
| Accessory Stir Bar D: 8mm X 25mm | 100MSA0BL08025 | 10 | 4,100.00 |
| Accessory Stir Bar D: 8mm X 35mm | 100MSA0BL08035 | 10 | 4,400.00 |
| Accessory Stir Bar D: 12mm X 50mm | 100MSA0BL12050 | 10 | 12,900.00 |
| Accessory Stir Bar D: 13mm X 60mm | 100MSA0BL13060 | 1 | 1,900.00 |
| Aluminium Blocks Organiser Carry Plate | BLAHHPS0000ABCB000 | 1 | 5,000.00 |
| Alumium Quarter Block 4 X 20 ml | BLAHHPS0420AQB0000 | 1 | 4,000.00 |
| Alumium Quarter Block 4 X 30 ml | BLAHHPS0430AQB0000 | 1 | 4,000.00 |
| Alumium Quarter Block 7 X 16 ml | BLAHHPS0716AQB0000 | 1 | 4,500.00 |
| Alumium Quarter Block 10 x 8 ml | BLAHHPS1008AQB0000 | 1 | 4,900.00 |
| Alumium Quarter Block 12 x 4 ml | BLAHHPS1204AQB0000 | 1 | 4,900.00 |
| Aluminium Reaction Block RB 50 ml | BLAHHPSRB50ARB0000 | 1 | 7,400.00 |
| Aluminium Reaction Block RB 100 ml | BLAHHPSRB100ARB000 | 1 | 7,400.00 |
| Aluminium Reaction Block RB 250 ml | BLAHHPSRB250ARB000 | 1 | 7,400.00 |
| Aluminium Reaction Block RB 500 ml | BLAHHPSRB500ARB000 | 1 | 7,400.00 |
| PT1000 Probe | 100MHPS01PT100 | 1 | 7880.00 |
| Probe Stand | 100MHPS01PS000 | 1 | 2,000.00 |

# Heating Mantles

The intelligently designed safe heating mantles provide safety cut off with precise heating along with time & temperature display like never before

## Temperature Controlled Heating Mantles

The equipment precisely fits the boiling and distillation flask, round bottom flasks or relevant reaction vessels providing consistent and controllable heating of organic liquids required for the boiling, evaporation, distillation, or extraction process.



### Technical Data & Ordering Information

| Model name | GMC250 | GMC500 | GMC010 |
|---|---|---|---|
| Flask Capacity | 250 ml | 500 ml | 1000 ml |
| Working Temperature Range | Ambient +5 °C to 350 °C | | |
| Temperature Accuracy | 1°C | | |
| Timer | upto 999 mins or continuous | | |
| Power Requirements | 1Å, 150W | 1Å, 200W | 1.5Å ,300W |
| Display | LED Display with Temperature, Time and Process Status | | |
| Top Plate Material | MS | MS | MS |
| Body Construction | MS | MS | MS |
| Product Dimensions (L x B x H) mm | 310 x 330 x 160 | 310 x 330 x 160 | 310 x 330 x 160 |
| Stage wise Heating Modes | Yes | Yes | Yes |
| External Temperature Probe | PT 100 | | |
| HSN Code | | 84198990 | |
| Ordering Code | BLFHGMC25000000000 | BLFHGMC50000000000 | BLFHGMC01000000000 |
| **Prices / Piece** | **7,900.00** | **8,400.00** | **9,000.00** |

### Technical Data & Ordering Information

| Model name | HMC020 | HMC050 | HMC011 |
|---|---|---|---|
| Flask Capacity | 2 L | 5 L | 10 L |
| Working Temperature Range | Ambient +5 °C to 350 °C | | |
| Temperature Accuracy | 1°C | | |
| Timer | upto 999 mins or continuous | | |
| Power Requirements | 2.5Å ,450W | 3Å, 600W | 6Å, 1200W |
| Display | LED Display with Temperature, Time and Process Status | | |
| Top Plate Material | SS | SS | SS |
| Body Construction | MS | MS | MS |
| Product Dimensions (L x B x H) mm | 263 x 355 x 136 | 320 x 320 x 260 | 450 x 603 x 215 |
| Stage wise Heating Modes | Yes | Yes | Yes |
| External Temperature Probe | PT 100 | | |
| HSN Code | | 84198990 | |
| Ordering Code | BLFHHMC02000000000 | BLFHHMC50000000000 | BLFHHMC01100000000 |
| **Prices / Piece** | **29,900.00** | **41,700.00** | **80,280.00** |

# Precision Heating Mantles

The intelligently designed safe heating mantles provide safety cutoff with precise heating & stirring features



## Precise Stirring & Heating Mantles

The equipment precisely fits the boiling and distillation flask, round bottom flasks or relevant reaction vessels providing consistent and controllable heating of organic liquids required for the boiling, evaporation, distillation, or extraction process.

## Technical Data & Ordering Information

| Model Name | PRM250 | PRM500 | PRM010 | PRM020 |
|---|---|---|---|---|
| Flask Capacity | 250 ml | 500 ml | 1L | 2 L |
| Working Temperature Range | Ambient +5 °C to 350°C | | | |
| Temperature Accuracy | 1 °C | | | |
| Timer | upto 999 mins or continuous | | | |
| Stirring Speed | 300 - 2200 rpm | | | |
| Power Requirements | 1Å, 150W | 1Å, 200W | 1Å, 200W | 2.5Å, 450W |
| Display | LED Display with Temperature, Time and Process Status | | | |
| Top Plate Material | SS | SS | SS | SS |
| Body Construction | SS | SS | SS | SS |
| Product Dimensions (L x B x H) mm | 310 x 330 x 160 | 310 x 330 x 160 | 310 x 330 x 160 | 263 x 355 x 136 |
| Stage wise Heating Modes | Yes | Yes | Yes | Yes |
| External Temperature Probe | PT 100 | | | |
| HSNCode | 84198990 | | | |
| Ordering Code | BLFHPRM 25000000000 | BLFHPRM 50000000000 | BLFHPRM 01000000000 | BLFHPRM 02000000000 |
| **Prices / Piece** | **24,800.00** | **25,900.00** | **31,600.00** | **33,400.00** |

*PRM Capacities 5L & 10 L available on request

# Heating Mantles

Ideal for busy laboratories with multiple users or experiments needing different set temperatures at the same time

## Multiposition Heating Mantles

The equipment precisely fits the boiling and distillation flask, round bottom flasks or relevant reaction vessels providing consistent and controllable heating of organic liquids required for the boiling, evaporation, distillation, or extraction process.



### Technical Data & Ordering Information

| Model name | MPM062 | MPM065 |
|---|---|---|
| Heating Position | 6 | 6 |
| Max Flask Capacity | 250 ml | 500 ml |
| Temperature Range | Ambient +5°C to 350°C | |
| Temperature Control | PID with digital energy regulator | |
| Temperature feedback | Yes | |
| Temperature Accuracy | 1 °C | |
| Display Timer | 0-999 min and Infinite | |
| Material of construction | M.S Powder coated body with SS304 Top Plate | |
| Unit Dimensions (L x B x H) mm | 1000 x 330 x 135 | |
| HSN Code | 84198990 | |
| Ordering Code | BLFHMPM06200000000 | BLFHMPM06500000000 |
| **Prices / Piece** | **66,200.00** | **66,200.00** |

# Recirculating Chillers

Labquest state-of-the-art Chillers ensure accurate and constant conditions of instruments even in the challenging laboratory conditions. Recirculating chillers offer multiple benefits, including reducing user costs, protecting the environment, improving reaction reproducibility.



## Cooling & Heating Circulators

Routine laboratory applications involving rotary evaporators, soxhlet & lab distillations, jacketed reactors, solvent tanks, Warming reagents, coliform determinations, sample thawing, bacteriological examinations, microbiological assays, cell cultivation, vacuum systems, and even analytical instruments.

# Recirculating Chiller

Technical Data & Ordering Information

| Model Name | CH 017 5 | CH 0500 | CH 0010 |
|---|---|---|---|
| Tank capacity | 5 L | 7.5 L | 10 L |
| Tank size (L x B x H) mm | 325 x 176 x 150 | 325 x 265 x 150 | 325 x 265 x 200 |
| Overall Dimensions (L x B x H) mm | 508 x 257 X 596 | 594 x 327 x 596 | 594 x 396 x 723 |
| Cooling capacity | 175 W | 500 W | 1000 W |
| Pump flow rate | 12.5 LPM | | |
| Display | LED | | |
| Temperature stability | ± 1.0 °C | | |
| Temperature range | -10 °C to ambient -5 °C | | |
| Castor Wheels for Mobility | NA | YES | YES |
| HSN Code | 84798999 | | |
| Ordering Code | BLFRCHL17500000000 | BLFRCHL50000000000 | BLFRCHL01000000000 |
| **Prices / Piece** | **On Request** | **On Request** | **On Request** |

# Recirculating Heater / Chiller

Technical Data & Ordering Information

| Model Name | CTR17 5 | CTR500 | CTR010 |
|---|---|---|---|
| Tank capacity | 5 L | 7.5 L | 10 L |
| Tank size (L x B x H) mm | 325 x 176 x 150 | 325 x 265 x 150 | 325 x 265 x 200 |
| Overall Dimensions (L x B x H) mm | 508 x 257 X 596 | 594 x 327 x 596 | 594 x 396 x 723 |
| Cooling capacity | 175 W | 500 W | 1000 W |
| Pump flow rate | 12.5 LPM | | |
| Heater Capacity | 1200 W | | |
| Display | LED | | |
| Temperature stability | ± 1.0 °C | | |
| Temperature range | -10 °C to ambient -5 °C | | |
| Castor Wheels for Mobility | NA | YES | YES |
| HSN Code | 84798999 | | |
| Ordering Code | BLFRCTR17500000000 | BLFRCTR50000000000 | BLFRCTR01000000000 |
| **Prices / Piece** | **On Request** | **On Request** | **On Request** |

# Vaccum Pump

Clean operation & highest reliability with Labquest Oil Free Vaccum Pump

## BORO - 017

Boro-017 Vacuum pump is a piston-powered, oil-free pump. With innovative electronic, mechanical technology and human design concept make, compact and light weight, clean and maintenance free, safe and comfortable. Thus finds application in biology laboratories, food industry, microbiological detection, vacuum extraction, liquid filtration, vacuum drying, suspended solids measurement.




### Technical Data & Ordering Information

| Product Code | BORO - 017 |
|---|---|
| Max. Vacuum | 100 mbar |
| Max. flow rate | 17 L / min |
| Motor rotation | 1450 rpm |
| Port thread | 9 mm |
| Noise level | 50 dB |
| Weight | 4.4 kg |
| Dimension (W x D X H) in mm | 272 x 142 x 165 |
| Electrical Requirement | 60 W |
| Power Consumption | 1000 x 330 x 135 |
| HSN Code | 84198990 |
| Ordering Code | 100VP300017 |
| **Prices / Piece** | **28,300.00** |

* Never pump toxic, explosive, flammable, corrosive gases, chemicals, solvents or powders. Flowing substances, explosion or fire can cause bodily injury.

# Glass Dryer

Labquest dryer offers basic solutions of quick drying laboratory glasswares at 60 °C



## Glass Dryer GDS

Labquest Glass dryers can be used as bench top model or wall hanging in your laboratory washing area. It offers drying of laboratory articles in 10 to 15 minutes. Useful for quick drying viz. GCMS glasswares, Kjeldahl digestion tubes, routine work Involving assorted glassware, general purpose drying.

## Technical Data & Ordering Information

| **Model Name** | **GDS020** |
|---|---|
| Number of Pegs | 21 |
| Peg Sizes | |
| 16 mm | 8 Nos |
| 10 mm | 8 Nos |
| 7 mm | 5 Nos |
| Temperature Range | Ambient to 70°C |
| Time Control | Yes |
| Drying Power | 650 W |
| Dimension (L x B x H) in mm | 440 x 170 x 550 |
| Voltage (V) | 240 V |
| HSN Code | 84798200 |
| Ordering Code | BLFGGDS02000000000 |
| **Prices / Piece** | **21,700.00** |

# Micro Centrifuge

Smart, Sturdy & Silent intelligently designed micro centrifuge built to make your life easier in lab



## MCF08VT

With insights gleaned from extensive user-research, Borosil's MCF08VT is everything that a user could want. From reliable performance and high-quality components to intelligently designed chassis and user-friendly interface, MCF08VT is built to make your life easier in the lab.

### Technical Data & Ordering Information

| **Product Code** | **MCF08VT** |
|---|---|
| Rotor position | 8 x 1.5/2.0 ml Microtubes |
| Tube capacity in ml | 1.5 / 2.0 / 0.2 / 0.5 |
| Max speed (rpm) | 1000-6000 rpm in 100rpm steps |
| RCF (g) | 2000g |
| Display | Digital |
| Noise level | < 55 db |
| Imbalance detection | Yes |
| Timer | 1-25 Minutes & infinite mode |
| Dimension (L X W X H) mm | 162 x 157 x 116 |
| Weight | 1.1 Kg (with rotor) |
| Rotors and Adaptors (included in standard pack) | 8 x 1.5/2.0 ml Closed Rotor, PCR strip Rotator (2 x 8 x 0.2 m)<br>Reduction adaptors for 0.2 / 0.5ml Microtubes |
| HSN Code | 84211999 |
| Ordering Code | 100MCF00800VT0 |
| **Prices / Piece** | **13,750.00** |

8 x 1.5/2ml rotor



PCR strip rotor



0.2/0.5ml tube reducers



# Micro Centrifuge

Smart, Sturdy & Silent intelligently designed micro centrifuge built to make your life easier in lab



## MCF12VT

Delivering top-notch accuracy in every cycle despite high load, MCF12VT has been designed keeping in mind the requirements of the clients. The lightning fast 15000 RPM microprocessor controlled centrifuge can perform at peak efficiency and give the desired results. It gives smooth and silent operation even at the maximum speed.

## Technical Data & Ordering Information

| Model Name | MCF12VT |
|---|---|
| Rotor position | 12 x 1.5ml / 2.0ml Microtubes |
| Tube capacity in ml | 1.5 / 2.0 / 0.5 / 0.4 / 0.2 |
| Max speed (rpm) | 15000 rpm |
| RCF (g) | 15596g |
| Display | Large digital display |
| Motor Type | Brushless DC motor |
| Noise level | < 60 db |
| Imbalance detection | Yes |
| Timer | Countdown timer : 1-99 Mins & infinite mode |
| Dimension (L X W X H) mm | 187 x 265 x 115 |
| Weight | 2.2 Kgs (with rotor) |
| Rotors and Adaptors (included in standard pack) | 12 x 1.5/2 ml Angel Rotor, Reduction adaptor for 0.2ml Microtubes<br>Reduction adaptor for 0.4ml / 0.5ml Microtubes |
| HSN Code | 84211999 |
| Ordering Code | 100MCF01200VT0 |
| **Prices / Piece** | **46,500.00** |

## Optional Accessories

| Description | Ordering Code | Prices / Piece |
|---|---|---|
| 12 x 1.5/2 ml Angle Rotor | 10000MC1202MLF | **9,750.00** |
| PCR Strip Rotor (2 x 8 x 0.2 ml) | 10000MC0208MLS | **15,940.00** |

| 12 tubes rotor angle | 1.5/2.0ml tubes | | 0.5ml Adaptor | | 0.1/0.2ml Adaptor |
|---|---|---|---|---|---|
| | 1.5/2 ml | 0.5 ml | 0.4 ml | 0.2 ml | 0.1 ml |
| Max. Speed | 15000 | 15000 | 15000 | 15000 | 15000 |
| Max. RCF | 15596 | 12577 | 12074 | 11105 | 10278 |

| PCR strip rotor (Optional) | 0.1/0.2ml PCR strip |
|---|---|
| Max. Speed | 15000 |
| Max. RCF | 13080 |

# Cooling High Speed Micro Centrifuge

Unmatched performance, safety with preset features for quick cooling



## Technical Data & Ordering Info

| Model Name | CLMC24VT |
|---|---|
| Cooling temperature | Up to -20°C |
| Max speed (rpm) | 500 - 15000 rpm |
| Programmable Feature | User can set and save up to 99 user defined programs of 4 lines each |
| Display | Large back lit LCD display |
| Motor Type | Brushless DC motor |
| Lid Lock Safety | Yes |
| Imbalance detection | Yes |
| Timer Setting | 30 secs to 999 mins & infinite mode |
| Dimension (L X W X H) in mm | 452 X 314 X 278 |
| Weight | Approx. 43 kgs |
| HSN Code | 84211999 |
| Ordering Code* | 100CLMC2400VT0 |
| **Prices / Piece** | **On request** |

## Optional Accessories

| Description | Ordering Code | Prices / Piece ₹ |
|---|---|---|
| Microtubes Rotor (24 x 1.5 / 2 ml) (21420 x g) | 100CLMC2402MLF | 25,200.00 |
| Microtubes Rotor (44 x 1.5 / 2 ml) (22388 x g) | 100CLMC4402MLF | 34,110.00 |
| Angal Rotor 8 x 5 ml (18461 x g) | 100CLMC0805MLF | 33,760.00 |
| PCR Strip Rotor (4 x 8 x 0.2 ml) (15397 x g) | 100CLMC4802MLS | 37,820.00 |

| 24 x 2ml rotor (standard supply) | 1.5/2.0ml tubes | 0.5ml Adaptor | 0.1/0.2ml Adaptor | | PCR strip rotor (optional) | 0.2ml PCR strip |
|---|---|---|---|---|---|---|
| | | | 0.1ml | 0.2ml | | |
| Max. Speed | 15000 | 15000 | 15000 | 15000 | Max. Speed | 15000 |
| Max. RCF x g | 21420 | 18842 | 16103 | 16930 | Max. RCF x g | 15397 |

| 44 x 2ml rotor (optional) | 1.5/0.2ml tubes | 0.5ml Adaptor | 0.1/0.2ml Adaptor | | 8 x 5ml rotor (optional) | 5ml tube |
|---|---|---|---|---|---|---|
| | | | 0.1ml | 0.2ml | | |
| Max. Speed | 15000 | 15000 | 15000 | 15000 | Max. Speed | 15000 |
| Max. RCF x g | 22388 | 19810 | 17070 | 17898 | Max. RCF x g | 18461 |

# Clinical Centrifuge

Centrifuge for clinical application are designed to accommodate rotor and blood centrifuge tubes



## Technical Data & Ordering Info

| Model Name | DCF06VT |
|---|---|
| Rotor position | 6 x 15 ml (Fixed angle) |
| Tube capacity in ml | 2 / 5 / 7 / 15 ml |
| Max speed (rpm) | 6500 rpm + 100 rpm |
| RCF (g) | 3684 g - 6 X 15 ml |
| Motor Type | Brushless DC motor |
| Noise level (db) | < 60 db |
| Lid Lock Safety | Yes |
| Imbalance detection | Yes |
| Timer setting | 1-30 Minutes & infinite mode |
| Dimension (L X W X H) mm | 260 x 244 x 205 |
| Weight | 4 Kgs (with rotor) |
| Rotors and Adaptors | 6 x 15ml rotor (Fixed angle) |
| (included in standard pack) | Adaptor for 2ml/5ml/7ml Blood collection tube |
| HSN Code | 84211999 |
| Ordering Code* | 100DCF00600VT0 |
| **Prices / Piece** | **49,350.00** |

*Also available in 8 x 15 ml fixed angle rotor (3873g) Part No. 100DCF00800VT0

## Optional Accessories

| Description | Ordering Code | Prices / Piece ₹ |
|---|---|---|
| Fixed angle rotor, 8 x 15 ml (1950g) | 100CCFA0815MLF | **16,470.00** |

# Clinical Centrifuge

Centrifuge for clinical application are designed to accommodate rotor and blood centrifuge tubes



## Technical Data & Ordering Info

| Model Name | CCF4000VT |
|---|---|
| Rotor position | 6 x 10 ml (Swing out rotor),<br>8 x 15 ml (Fixed angle),<br>16 X 10 ml (Fixed angle) |
| Tube capacity in ml | 10 / 15 ml |
| Max speed (rpm) | 4000 rpm |
| RCF (g) | 2270g - 6 x 10 ml, 1950g - 8 x 15 ml, 2180g - 16 x 10 ml |
| Motor Type | Brushless DC motor |
| Noise level (db) | < 60 db |
| Lid Lock Safety | Yes |
| Imbalance detection Timer setting | Yes, 1-999 Minutes & infinite mode |
| Dimension (L X W X H) mm | 415 x 355 x 173 |
| Weight | 7.7 Kgs (without rotor) |
| Rotors and Adaptors (included in standard pack) | 6 x 10 ml (Swing out rotor) |
| HSN Code | 84211999 |
| Ordering Code | 100CCF00800VT0 |
| **Prices / Piece** | **76,440.00** |

## Optional Accessories

| Description | Ordering Code | Max Speed | Max RCF x g | Prices / Piece ₹ |
|---|---|---|---|---|
| Swing out rotor, 6 X 10 ml (2270 g) | 100CCFA0610MLS | 4000 RPM | 2270 | **29,060.00** |
| Fixed angle rotor, 8 x15 ml (1950 g ) | 100CCFA0815MLF | 4000 RPM | 1950 | **16,470.00** |
| Fixed angle rotor, 16 x10 ml (2180 g) | 100CCFA1610MLF | 4000 RPM | 2180 | **47,040.00** |

# Clinical Centrifuge

Centrifuge for clinical application are designed to accommodate rotor and blood centrifuge tubes



## Technical Data & Ordering Info

| Model Name | CCD4504VT |
|---|---|
| Rotor position | Combi Rotor 4 x 50 ml + 4 x 15 ml or 8 X 15 ml |
| Tube capacity in ml | 15 / 50 ml |
| Max speed (rpm) | 4500 rpm |
| RCF (g) | 1985 x g |
| Motor Type | Brushless DC motor |
| Noise level (db) | < 60 db |
| Lid Lock Safety | Yes |
| Imbalance detection | Yes |
| Timer setting | 1-99 Minutes & infinite mode |
| Dimension (L X W X H) mm | 330 x 265 x 161 |
| Weight | 4 Kgs |
| Rotors and Adaptors (included in standard pack) | Combi Rotor 4 x 50 ml + 4 x 15 ml or 8 X 15 ml<br>Adaptor for 5ml, 7ml, 10ml standard blood collection tube |
| HSN Code | 84211999 |
| Ordering Code | 100CCD04504VT0 |
| **Prices / Piece** | **27,150.00** |

## Additional Technical Data

| Tube Capacity | | 50ml | 15ml | 10ml | 7ml | 5ml |
|---|---|---|---|---|---|---|
| Dimensions (mm) | | 025 x 115 | 017 x 120 | 016 x 100 | 013 x 100 | 012 x 75 |
| Radius (mm) | | 8.77 | 8.77 | 8.77 | 8.37 | 8.37 |
| Speed (RPM) | | 4500 | 4500 | 4500 | 4500 | 4500 |
| Max. RCF | | 1985 | 1985 | 1985 | 1985 | 1985 |
| Total no. of tube | | 4 | 8 | 8 | 8 | 8 |
| Adaptor Required | | No | No | Yes | Yes | Yes |
| | | No | No | No | No | Yes |
| | | No | No | No | Yes | No |

# Universal Lab Centrifuge

Designed to provide ideal results with combination rotor with unparalleled safety features



## Technical Data & Ordering Info

| Model Name | ULC4504VT |
|---|---|
| Rotor position (max) | 4 x 100 ml |
| Max speed (rpm) | 4500 rpm |
| RCF (g) | g varies as per rotor |
| Motor Type | Brushless DC motor |
| Display | Digital |
| Lid Lock Safety | Yes |
| Imbalance detection | Yes |
| Timer Setting | 30 sec-99 mins & infinite mode |
| Speed Setting | 500 to 4500 rpm |
| Dimension (L X W X H) mm | 475 x 585 x 325 |
| Weight | 23 Kgs (without rotor) |
| Rotors (not included) | Multiple rotor options (swing and fixed angle) |
| HSN Code | 84211999 |
| Ordering Code* | 100ULC04504VT0 |
| **Prices / Piece** | **72,770.00** |

## Optional Accessories

| Description | Ordering Code | Max Speed | Max RCF x g | Prices / Piece ₹ |
|---|---|---|---|---|
| Swing Out Rotor 32 x 6ml | 100UC1A3206MLS | 4500 | 3164 g | **23,710.00** |
| Swing Out Rotor 16 x 15ml | 100UC1A1615MLS | 4500 | 3485 g | **12,940.00** |
| Swing Out Rotor 12 x 15ml | 100UC1A1215MLS | 4500 | 3485 g | **11,550.00** |
| Swing Out Rotor 8 x 15ml | 100UC1A0815MLS | 4500 | 3340 g | **7,280.00** |
| Swing Out Rotor 4 x 50ml | 100UC1A0450MLS | 4500 | 3485 g | **8,560.00** |
| Swing Out Rotor 4 x 100ml (with lid) | 100UC1A0401LMS | 4500 | 3164 g | **29,060.00** |
| Swing Out Rotor 2 Micro plates | 100UC1A0002MPS | 4500 | 2355 g | **36,000.00** |
| Fixed Angle Rotor 16 x 15ml | 100UC1A1615MLF | 4500 | 3144 g | **11,550.00** |
| Fixed Angle Rotor 12 x 15ml | 100UC1A1215MLF | 4500 | 3144 g | **10,080.00** |
| Fixed Angle Rotor 6 x 50ml | 100UC1A0650MLF | 4500 | 2644 g | **8,260.00** |
| Fixed Angle Rotor 4 x 50ml | 100UC1A0450MLF | 4500 | 2644 g | **7,710.00** |
| Fixed Angle Rotor 4 x 100ml | 100UC1A0401MLF | 4500 | 2599 g | **16,150.00** |
| Fixed Angle Rotor 24 x 15ml | 100UC1A2415MLF | 4500 | 2854 g | **19,380.00** |

# Universal Lab Centrifuge

Designed to provide ideal results with combination rotor with unparalleled safety features



## Technical Data & Ordering Info

| Model Name | ULC4204VT |
|---|---|
| Rotor position (max) | 4 x 250 ml |
| Max speed (rpm) | 4200 rpm |
| RCF (g) | g varies as per rotor |
| Motor Type | Brushless DC motor |
| Display | Digital |
| Lid Lock Safety | Yes |
| Imbalance detection | Yes |
| Timer Setting | 30 sec-99 mins & infinite mode |
| Speed Setting | 500 to 4500 rpm |
| Dimension (L X W X H) mm | 475 x 585 x 325 |
| Weight | 23 Kgs (without rotor) |
| Rotors (not included) | Multiple rotor options (swing and fixed angle) |
| HSN Code | 84211999 |
| Ordering Code* | 100ULC04204VT0 |
| **Prices / Piece** | **1,01,990.00** |

## Optional Accessories

| Description | Ordering Code | Max Speed | Max RCF x g | Prices / Piece ₹ |
|---|---|---|---|---|
| Swing Out Rotor 32 x 6ml | 100UC2A3206MLS | 4200 | 2766 g | 23,770.00 |
| Swing Out Rotor 16 x 15ml | 100UC2A1615MLS | 4200 | 2884 g | 12,830.00 |
| Swing Out Rotor 4 x 50ml | 100UC2A0450MLS | 4200 | 2884 g | 8,560.00 |
| Swing Out Rotor 4 x 100 ml | 100UC2A0401MLS | 4200 | 2766 g | 16,470.00 |
| Swing Out Rotor 4 x 100ml (with lid) | 100UC2A0401LMS | 4200 | 2884 g | 29,060.00 |
| Swing Out Rotor 4 x 250 ml | 100UC2A0402MLS | 4200 | 3181 g | 47,040.00 |
| Swing Out Rotor 64 x 6 ml | 100UC2A6406MLS | 4200 | 3181 g | 49,400.00 |
| Swing Out Rotor 2 Micro plates | 100UC2A0002MPS | 4200 | 2074 g | 36,000.00 |
| Fixed Angle Rotor 16 x 15ml | 100UC2A1615MLF | 4200 | 2410 g | 11,550.00 |
| Fixed Angle Rotor 6 x 50ml | 100UC2A0650MLF | 4200 | 2410 g | 7,710.00 |
| Fixed Angle Rotor 4 x 50ml | 100UC2A0450MLF | 4200 | 2331 g | 7,710.00 |
| Fixed Angle Rotor 4 x 100ml | 100UC2A0401MLF | 4200 | 2272 g | 16,150.00 |
| Fixed Angle Rotor 24 x 15ml | 100UC2A2415MLF | 4200 | 2489 g | 19,380.00 |

# Cooling Universal Lab Centrifuge

Multi-rotor configuration with high speed operation and variable temperature rage for wide range of lab protocol



## Technical Data & Ordering Info

| Model Name | CULC1504VT |
|---|---|
| Rotor position | 4 x 100 ml (fixed & swing out) / 32 x 6 ml (swing out) |
| Cooling temperature | Up to - 10°C |
| Max speed (rpm) | 15000 rpm |
| RCF (g) | g varies as per rotor |
| Display | Large back lit LCD display |
| Motor type | Brushless DC motor |
| Speed setting | 500 to 15000 rpm |
| Lid lock safety | Yes |
| Imbalance detection | Yes |
| Timer setting | 30 secs. to 999 mins 59 secs. & infinite mode |
| Dimension (L x W x H) in mm | 705 x 585 x 330 |
| Weight | 57 kgs (without rotor) |
| HSN Code | 84211999 |
| Ordering code | 100CULC1504VT0 |
| **Prices / Piece** | **On request** |

## Optional Accessories

| Description | Ordering Code | Max Speed | Max RCF x g | Prices / Piece ₹ |
|---|---|---|---|---|
| Swing Out Rotor 16 x 15 ml | 100UC3A1615MLS | 4500 | 3305 g | **19,880.00** |
| Swing Out Rotor 4 x 50 ml | 100aUC3A0450MLS | 4500 | 3305 g | **16,700.00** |
| Swing Out Rotor 4 x 100 ml | 100UC3A0401MLS | 4500 | 3305 g | **16,170.00** |
| Swing Out Rotor 2 Micro plates | 100UC3A0002MPS | 4500 | 2377 g | **34,470.00** |
| Swing Out Rotor 32 x 06 ml | 100UC3A3206MLS | 4500 | 3164 g | **24,590.00** |
| Swing Out Rotor 4 x 100ml (with lid) | 100UC3A0401LMS | 4500 | 3164 g | **28,000.00** |
| Fixed Angle Rotor 16 x 15 ml | 100UC3A1615MLF | 6000 | 4910 g | **21,700.00** |
| Fixed Angle Rotor 6 x 50 ml | 100UC3A0650MLF | 6000 | 4910 g | **18,460.00** |
| Fixed Angle Rotor 4 x 50 ml | 100UC3A0450MLF | 6000 | 4750 g | **17,070.00** |
| Fixed Angle Rotor 24 x 15 ml | 100UC3A2415MLF | 6000 | 5070 g | **24,000.00** |
| Fixed Angle Rotor 4 x 100 ml | 100UC3A0401MLF | 6000 | 4628 g | **17,070.00** |
| Fixed Angle Rotor 24 x 2 ml | 100UC3A2402MLF | 15000 | 21420 g | **29,050.00** |
| Fixed Angle Rotor 44 x 2 ml | 100UC3A4402MLF | 15000 | 22388 g | **36,460.00** |
| Fixed Angle Rotor 4 x 8 x 0.2 ml PCR | 100UC3A4802MLF | 15000 | 15397 g | **37,870.00** |
| Fixed Angle Rotor 8 x 5 ml | 100UC3A0805MLF | 15000 | 18461 g | **33,700.00** |

# Dry Baths

LabQuest versatile Dry Bath, offers a wide range of inter changeable blocks to accommodate various tubes and plates



*Representative image Dry Bath LBH010 is supplied without aluminum block

## Technical Data & Ordering Info

| Model Name | LBH010 |
|---|---|
| Temperature Range | Ambient +5°C to 130°C |
| Temperature Accuracy | ±0.5°C at 37°C |
| Display Resolution | ±0.1°C |
| Heating Up Time | <18 min 30°C TO 130°C |
| Process Timer | 0-999 min |
| Temperature Control | PID and Digital Energy Regulator |
| Unit External Dimensions (W x D x H) in mm | 285 x 190 x 156 |
| Cover For Dry Block | UV protection |
| Power consumptions | 200W |
| Current Consumption | 1Å |
| HSN Code | 841989900 |
| Ordering Code | BLFHLBH01000000000 |
| **Prices / Piece** | **21,600.00** |

8 well PCR strip of 0.2 ml, 32 wells, f6.35mm, depth 19mm
BLAALBH PCR3208W004



For 0.5 ml tube, 24 wells, φ8.0mm, depth 25mm
BLAALBH 0MW2406W004



FOR 2.0 ml or 1.5ml tube 16 wells of, φ11.0mm, depth 30mm
BLAALBH0MW1604W004



Versatile multi well block for 8 wells of 0.2ml tube, 8 wells of 0.5ml tube, and 8 wells of 2.0ml or 1.5ml tube BLAALBH0MW000BB004



15 ml tube* 12 wells φ17.3mm, depth 50mm
BLAALBH 0MW1204W004



For 50 ml tube* 4 wells, φ29.2mm, depth 50mm
BLAALBH 0MW0402W004



Bead bath or water bath block Vol of 300ml*
BLAALBH0MW000BB004



Flat 96 well* plate block
BLAALBH0MW0096W004



* During usage of 15ml, 50ml & 96 well plate blocks, top covers remains open

## Recommended Accessories

| Description | Ordering Code | Prices / Piece ₹ |
|---|---|---|
| LBH010 ALU Block - 8 X 4 Well PCR Strip Tube | BLAALBHPCR3208W004 | **14,700.00** |
| LBH010 ALU Block - 6 X 4 Well, 0.5 ml Tube | BLAALBH0MW2406W004 | **11,000.00** |
| LBH010 ALU Block - 4 X 4 Well, 1.5 / 2.0 ml Tube | BLAALBH0MW1604W004 | **11,000.00** |
| LBH010 ALU Block - Multi Well - 8 Wells | BLAALBHVMW0008W004 | **11,000.00** |
| LBH010 ALU Block - 4 X 3 Well, 15 ml Tube | BLAALBH0MW1204W004 | **11,000.00** |
| LBH010 ALU Block - 2 X 2 Well, 50 ml Tube | BLAALBH0MW0402W004 | **11,000.00** |
| LBH010 ALU Bead Bath / Water bath block (w/o beads) | BLAALBH0MW000BB004 | **14,700.00** |
| LBH010 ALU Flat 96 Well plate block | BLAALBH0MW0096W004 | **16,800.00** |

# Incubator

Cooling Incubator with versatile performance




## Technical Data & Ordering Info

| Model Name | INCH0025 |
|---|---|
| Temperature Range | Ambient less 15 °C to 60 °C |
| Temperature Accuracy | 0.5 °C (at 37 °C) |
| Temperature Uniformity | ± 1.5 °C (at 37 °C) |
| Temperature Increments | ± 1°C |
| Dimensions (L x W x H) in mm | 337 x 370 x 475 |
| Capacity | 25L |
| Weight | 6.5 kgs |
| Power consumption | 240V |
| HSN Code | 84198990 |
| Ordering Code | 100INCH0025000 |
| **Prices / Piece** | **69,570.00** |

# Orbital Shaker

Maintenance free brushless DC motor for powerful performance under high speed




Technical Data & Ordering Info

| Model Name | PL ONE |
|---|---|
| Type of movement | Orbital |
| Orbital diameter in mm | 2 mm |
| Number of plates | 1 |
| Motor Type | Brushless DC motor |
| Speed range in rpm | 300 RPM to 1800 RPM |
| Run Time | 1 to 99 mins & infinite |
| Pulse mode | No |
| Maximum Volume | 96 / 384 well plate |
| Inbuilt Counter balance | Yes |
| Dimensions (W x D x H) | 85 x 127 x 86 mm |
| Digital Display | Yes |
| HSN Code | 84798200 |
| Ordering Code | 100PL000100000 |
| **Prices / Piece** | **17,330.00** |

# High Capacity Orbital Shaker

Platform Shaker with true orbital & linear reciprocating motion



## Technical Data & Ordering Info

| Model Name | 7500S |
|---|---|
| Type of movement | Orbital / Linear |
| Orbital diameter in mm | 10 |
| Speed range in rpm | 50-500 rpm |
| Motor type | BLDC |
| Display | Digital |
| Run time | 1 min to 99.59 hrs |
| Programable feature | 6 programs with each program having 9 sub-programs |
| Program Looping | Yes |
| Platform Size (L x W) in mm | 330 x 330 |
| Dimensions (W x D x H) in mm | 350 x 408 x 99 |
| HSN Code | 84798200 |
| Ordering Code | 100S0000075000 |
| **Prices / Piece** | **86,630.00** |

## Optional Accessoried - For Shaker 7.5 Kg

| Description | Ordering Code | Prices / Piece ₹ |
|---|---|---|
| Universal platform with adjustable bars (Flask capacity 9 x 250 ml, 6 x 500 ml) | 100S00009UPB75 | 9,480.00 |
| Base plate with 9 plastic clamps : 9 x 250 ml | 100S02509BPP75 | 9,450.00 |
| Base plate with 9 plastic clamps : 9 x 500 ml | 100S05009BPP75 | 10,190.00 |
| Base plate with 9 Stainless steel clamps : 9 x 100 ml | 100S01009BPS75 | 11,550.00 |
| Base plate with 9 Stainless steel clamps : 9 x 250 ml | 100S02509BPS75 | 11,900.00 |
| Base plate with 9 Stainless steel clamps : 9 x 500 ml | 100S05009BPS75 | 14,330.00 |
| Stainless steel Clamp for 100 ml flask | 100S01001SSC00 | 740.00 |
| Stainless steel Clamp for 150 ml flask | 100S01501SSC00 | 740.00 |
| Stainless steel Clamp for 250 ml flask | 100S02501SSC00 | 740.00 |
| Stainless steel Clamp for 500 ml flask | 100S05001SSC00 | 1,370.00 |
| Stainless steel Clamp for 1000 ml flask | 100S10001SSC00 | 1,680.00 |
| Funnel Attachment ? | 100S00000FA075 | 12,250.00 |

# High Capacity Orbital Shaker

Platform Shaker with true orbital & linear reciprocating motion



## Technical Data & Ordering Info

| Model Name | 15000S | |
|---|---|---|
| Type of movement | Orbital / Linear | |
| Orbital diameter in mm | 30, 40, 50 | 60, 70 |
| Speed range in rpm | 50 - 300 rpm | 50 - 200 rpm |
| Motor type | BLDC | |
| Display | Digital | |
| Run time | 1 min to 99.59 hrs | |
| Programable feature | 6 Programs with each program having 9 subdivision | |
| Program Looping | Yes | |
| Platform Size (L x W) in mm | 745 x 490 | |
| Dimensions (W x D x H) in mm | 625 x 825 x165 | |
| HSN Code | 84798200 | |
| Ordering Code | 100S0000150000 | |
| **Prices / Piece** | **On request** | |

## Optional Accessoried - For Shaker 7.5 Kg

| Description | Ordering Code | Prices / Piece ₹ |
|---|---|---|
| Universal Platform for 44 x 100 ml,36 x 250 ml, 25 x 500 ml, 13 x 1000 ml | 100S00UP150000 | **51,560.00** |
| Base Plate for Plastic Clamps for 24 x 250 ml, 24 x 250 ml | 100S0BPC150015 | **34,130.00** |
| Plastic Clamp 1 No 250 ml | 100S02501PC015 | **920.00** |
| Plastic Clamp 1 No 500 ml | 100S05001PC015 | **1,160.00** |
| Base Plate for SS Clamps 24 x 100 ml, 24 x 150 ml, 24 x 250 ml | 100S0BSC250015 | **30,660.00** |
| SS Clamp 1 No, 100 ml | 100S01001SC015 | **1,170.00** |
| SS Clamp 1 No, 150 ml | 100S01501SC015 | **1,430.00** |
| SS Clamp 1 No, 250 ml | 100S02501SC015 | **1,430.00** |
| Base Plate for SS Clamps 24 x 500 ml, 8 x 1000 ml | 100S0BSC100015 | **30,660.00** |
| SS Clamp 1 No 500 ml | 100S05001SC015 | **2,000.00** |
| SS Clamp 1 No 1000 ml | 100S10001SC015 | **2,310.00** |

# Orbital Shaker

Maintenance free brushless
DC motor for powerful performance
under high speed




Technical Data & Ordering Info

| Model Name | PL FOUR |
|---|---|
| Type of movement | Orbital |
| Orbital diameter in mm | 3 mm |
| Number of plates | 4 |
| Motor Type | Brushless DC motor |
| Speed range in rpm | 200 RPM to 1200 RPM |
| Run Time | 1 to 999 mins & infinite |
| Pulse mode | Yes |
| Maximum Volume | 4 x 96 / 384 well plate |
| Inbuilt Counter balance | Yes |
| Dimensions (W x D x H) | 343 x 88 x 195 mm |
| Digital Display | Yes |
| Attachments (included in standard pack) | NA |
| HSN Code | 84798200 |
| Ordering Code | 100PL000400000 |
| **Prices / Piece** | **35,280.00** |

# Vortexers

The compact and new-age designed vortex mixer is capable of meeting the mixing requirements of laboratoy



Technical Data & Ordering Info

| Model Name | BHRMI 1.0 |
|---|---|
| Speed | Up to 2800 rpm |
| Orbital diameter | 6 mm |
| Motor type | AC motor |
| Operational mode | Touch, Stand-by & Continuous mode |
| Feet | Four suction cups |
| Unit External Dimension (W x D x H) in mm | 132 x 160 x 180 |
| Power consumption | 55 W |
| Current consumption | 1 A |
| HSN Code | 84798200 |
| Ordering Code | BLFHVMX01000000000 |
| **Prices / Piece** | **9,100.00** |

Optional Accessories for BHRMI 1.0

Accessories for 96 (Well Plates)
Ordering code (Combine)
BLAHVMX02060000000



Microplate holder



Well plate locking belt

Accessories for (volumetric Flask)
Ordering code (Combine)
BLA0EVA000FOAM0VMX



25, 50, 100ml Volumetric Flask Belt



Volumetric flask Base foam



Volumetric Flask Belt Locker



Foam Holder

| Description | Ordering code | Accessories 1.0 | Prices / Piece ₹ |
|---|---|---|---|
| Rubber Cup | BLAHVMX01040000000 | Included | 760.00 |
| Flat Foam | BLAHVMX01050000000 | | 450.00 |
| Vial Holder | BLAHVMX01000000001 | | 460.00 |
| Foam Holder | BLAHVMX01010000007 | | 700.00 |
| EVA Vial Holder foam | BLAHVMX02060000000 | Optional | 1,290.00 |
| Attachment Volumetric Flask | BLA0EVA000FOAM0VMX | | 1,000.00 |

# Vortexers

The compact and new-age designed vortex mixer is capable of meeting the mixing requirements of Laboratoy



## Technical Data & Ordering Info

| Model Name | BHRMI 2.0 |
|---|---|
| Speed | Upto 2800 rpm |
| Orbital diameter | 6 mm |
| Motor type | BLDC motor |
| Operational mode | Touch, Stand-by & Continuous mode |
| Timer Setting | 0 - 999 min |
| Display | LED with timer |
| Feet | Four suction cups |
| Unit External Dimension (W x D x H) in mm | 132 x 160 x 180 |
| Power consumption | 56 W |
| Current consumption | 1.5 A |
| HSN Code | 84798200 |
| Ordering Code | BLFHVMX02000000000 |
| **Prices / Piece** | **12,500.00** |

## Optional Accessories for BHRMI 1.0

Accessories for 96 (Well Plates)
Ordering code (Combine)
BLAHVMX02060000000



Microplate holder



Well plate locking belt

Accessories for (volumetric Flask)
Ordering code (Combine)
BLA0EVA000FOAM0VMX



25, 50, 100ml Volumetric Flask Belt



Volumetric flask Base foam



Volumetric Flask Belt Locker



Foam Holder

| Description | Ordering code | Accessories 2.0 | Prices / Piece ₹ |
|---|---|---|---|
| Rubber Cup | BLAHVMX01040000000 | Included | 760.00 |
| Flat Foam | BLAHVMX01050000000 | | 450.00 |
| Vial Holder | BLAHVMX01000000001 | | 460.00 |
| Foam Holder | BLAHVMX01010000007 | | 700.00 |
| EVA Vial Holder foam | BLAHVMX02060000000 | Optional | 1,290.00 |
| Attachment Volumetric Flask | BLA0EVA000FOAM0VMX | | 1,000.00 |

# Multitube Vortexer

Engineered for cell lysis, mixing suspensions and general sample agitation



## Technical Data & Ordering Info

| Model Name | MTV012 |
|---|---|
| Orbital Diameter in mm | 6 |
| Speed range (rpm) | 50 - 2200 rpm |
| Motor type | BLDC motor |
| Speed Accuracy | ±50 rpm |
| Operation Mode | Pulse & Continuous mode |
| Maximum Load | 4.0 Kg |
| Digital time setting | 1 min - 999 min & Infinite |
| Dimensions in mm | 450 x 245 x 475 |
| Weight (Kg) | 24 Kg |
| Power | 60W |
| Power Supply | AC 100-240V, 50/60Hz |
| | Foam insert for 07ml x 60 Tubes / Foam insert for 15ml x 45 Tubes |
| | Foam insert for 50ml x 18 Tubes |
| HSN Code | 84798200 |
| Ordering Code | BLFHMTV01200000000 |
| **Prices / Piece** | **On request** |

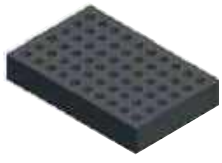
## Optional Accessories for Multitube Vortexer



50ml X 18
Tube Holding Foam



15ml X 45
Tube Holding Foam



7ml X 60
Tube Holding Foam



250ml X 6
Tube Holding Foam



100ml X 8
Tube Holding Foam

| Description | Ordering Code | Prices / Piece ₹ |
|---|---|---|
| 50ML TUBE HOLDING FOAM | BLA0FOAMMTV0000003 | **3,150.00** |
| 15ML TUBE HOLDING FOAM | BLA0FOAMMTV0000004 | **3,150.00** |
| 7ML TUBE HOLDING FOAM | BLA0FOAMMTV0000005 | **3,150.00** |
| 250ml CONICAL FLASK HOLDING FOAM* | BLA0FOAMMTV0000006 | **3,150.00** |
| 100ml VOLUMETRIC FLASK HOLDING FOAM* | BLA0FOAMMTV0000007 | **3,150.00** |

# Bottle Top Dispensers

Great Sample Preparations are made easy by Lab Essentials Dispensers.




Technical Data & Ordering Info

| Product Code RESEARCH Without Recirculation | Volume Range (ml) | Increment (ml) | Accuracy | | CV | | Prices / Piece ₹ |
|---|---|---|---|---|---|---|---|
| | | | ± % | ± ml | ± % | ± ml | |
| BLFLLH002011002D00 | 0.25 - 2.5 | 0.05 | 0.6 | 0.012 | 0.2 | 0.004 | **14,500.00** |
| BLFLLH002011005D00 | 0.5 - 5.0 | 0.1 | 0.6 | 0.03 | 0.2 | 0.01 | **14,500.00** |
| BLFLLH002011016D00 | 1.0 - 10.0 | 0.2 | 0.6 | 0.06 | 0.2 | 0.02 | **14,500.00** |
| BLFLLH002011020D00 | 2.5 - 25 | 0.5 | 0.6 | 0.18 | 0.2 | 0.06 | **21,000.00** |
| BLFLLH002011040D00 | 5.0 - 50.0 | 1 | 0.6 | 0.36 | 0.2 | 0.12 | **21,000.00** |
| BLFLLH002011100D00 | 10.0 - 100.0 | 2 | 0.6 | 0.6 | 0.2 | 0.2 | **25,100.00** |

| Product Code PINNACLE With Recirculation | Volume Range (ml) | Increment (ml) | Accuracy | | CV | | Prices / Piece ₹ |
|---|---|---|---|---|---|---|---|
| | | | + % | + ml | + % | + ml | |
| BLFLLH002012002D00 | 0.25 - 2.5 | 0.05 | 0.6 | 0.012 | 0.2 | 0.004 | **24,100.00** |
| BLFLLH002012005D00 | 0.5 - 5.0 | 0.1 | 0.6 | 0.03 | 0.2 | 0.01 | **24,100.00** |
| BLFLLH002012016D00 | 1.0 - 10.0 | 0.2 | 0.6 | 0.06 | 0.2 | 0.02 | **24,100.00** |
| BLFLLH002012020D00 | 2.5 - 25 | 0.5 | 0.6 | 0.18 | 0.2 | 0.06 | **32,100.00** |
| BLFLLH002012040D00 | 5.0 - 50.0 | 1 | 0.6 | 0.36 | 0.2 | 0.12 | **34,200.00** |
| BLFLLH002012100D00 | 10.0 - 100.0 | 2 | 0.6 | 0.6 | 0.2 | 0.2 | **49,400.00** |

# Electronic Burette

Automatic Digital Burette - designed with ergonomics and intuitive handling



Technical Data & Ordering Info

| Model Name | EB010 | EB025 | EB050 |
|---|---|---|---|
| Capacity (ml) | 10 ml | 25 ml | 50 ml |
| Display Increment (ml) | 0.005 ml | 0.01 ml | 0.01 ml |
| Accuracy in ± % | 0.10% | 0.07% | 0.05% |
| Accuracy in ± ml | 0.01 ml | 0.0175 ml | 0.025 ml |
| CV in ± % | 0.10% | 0.05% | 0.05% |
| CV in in ± ml | 0.001 ml | 0.0125 ml | 0.025 ml |
| Ordering Code | LH002014006 | LH002014009 | Lh002014012 |
| Delivery Speed | 1.2 ml/sec, 0.2 ml/sec | 2.1 ml/sec, 0.7 ml/sec | 3.8 ml/sec, 1.3 ml/sec |
| (Fast / Medium/Dropwise) | & 5ul/click | & 10 ul/click | & 10 ul/click |
| HSN Code | 90278090 | | |
| Order Code | LH002014006 | LH002014009 | LH002014012 |
| **Prices / Piece** | **1,00,400.00** | **1,00,400.00** | **1,00,400.00** |

# Micropipettes

C1 Designed to take manual liquid-handling workflows to a whole new level with industry-leading accuracy and precision.




## Technical Data & Ordering Information - **Fixed volume**

| Model Name | Volume Range (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece ₹ |
|---|---|---|---|---|
| LHC17111001 | 1 | 2.5 | 1.8 | **15,000.00** |
| LHC17111002 | 2 | 2.5 | 1.8 | **15,000.00** |
| LHC17111005 | 5 | 1.2 | 0.8 | **15,000.00** |
| LHC17111006 | 10 | 1.0 | 0.5 | **15,000.00** |
| LHC17111008 | 20 | 1.0 | 0.3 | **15,000.00** |
| LHC17111009 | 25 | 0.8 | 0.4 | **15,000.00** |
| LHC17111010 | 30 | 1.2 | 0.4 | **15,000.00** |
| LHC17111012 | 50 | 1.0 | 0.3 | **15,000.00** |
| LHC17111016 | 100 | 0.7 | 0.2 | **15,000.00** |
| LHC17111020 | 200 | 0.6 | 0.2 | **15,000.00** |
| LHC17111021 | 250 | 2.0 | 0.6 | **15,000.00** |
| LHC17111024 | 500 | 0.8 | 0.2 | **15,000.00** |
| LHC17111029 | 1000 | 0.8 | 0.2 | **15,000.00** |
| LHC17111030 | 2000 | 1.2 | 0.3 | **15,000.00** |
| LHC17111033 | 5000 | 0.6 | 0.2 | **15,000.00** |
| LHC17111038 | 10000 | 0.6 | 0.2 | **15,000.00** |
| HSN Code | 90318000 | | | |

## Technical Data & Ordering Information - **Variable volume**

| Model Name | Volume Range (µl) | Volume Increment (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece ₹ |
|---|---|---|---|---|---|
| LHC17112002 | 0.2-2 | 0.02 | 2.0 | 1.00 | **19,200.00** |
| LHC17112005 | 0.5-10 | 0.10 | 1.0 | 0.50 | **19,200.00** |
| LHC17112008 | 2-20 | 0.20 | 1.0 | 0.30 | **19,200.00** |
| LHC17112016 | 5-50 | 0.50 | 1.0 | 0.30 | **19,200.00** |
| LHC17112020 | 10-100 | 1.00 | 0.7 | 0.20 | **19,200.00** |
| LHC17112024 | 20-200 | 2.00 | 0.6 | 0.20 | **19,200.00** |
| LHC17112029 | 100-1000 | 10.00 | 0.8 | 0.20 | **19,200.00** |
| LHC17112033 | 1000-5000 | 50.00 | 0.6 | 0.15 | **19,200.00** |
| LHC17112038 | 1000-10000 | 20.00 | 0.6 | 0.15 | **19,200.00** |
| HSN Code | 84798200 | | | | |

## Optional Accessories

| Description | Product Code | Qty / Pack | Prices / Piece ₹ |
|---|---|---|---|
| C1 Fixed Vol Knob | On Request | 1 | **2,500.00** |
| C1 Variable Vol Knob | On Request | 1 | **3,900.00** |

# Micropipettes

C1 Multichannel pipettes minimize human error and maximize the reliability of manual liquid transfer in scientific experiments.




Technical Data & Ordering Information - **8 channel**

| Model Name | Volume Range (µl) | Volume Increment (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece ₹ |
|---|---|---|---|---|---|
| LHC17113001 | 0.5-10 | 0.1 | 2.00 | 1.00 | **32,640.00** |
| LHC17113002 | 2-20 | 0.2 | 2.00 | 1.00 | **32,640.00** |
| LHC17113009 | 5-50 | 0.5 | 1.40 | 0.60 | **32,640.00** |
| LHC17113016 | 10-100 | 1 | 1.30 | 0.50 | **32,640.00** |
| LHC17113020 | 20-200 | 2 | 1.20 | 0.40 | **32,640.00** |
| LHC17113022 | 30-300* | 2 | 1.40 | 0.30 | **32,640.00** |
| HSN Code | 90318000 | | | | |

Technical Data & Ordering Information - **12 channel**

| Model Name | Volume Range (µl) | Volume Increment (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece ₹ |
|---|---|---|---|---|---|
| LHC17114001 | 0.5-10 | 0.1 | 2.00 | 1.00 | **36,320.00** |
| LHC17114002 | 2-20 | 0.2 | 2.00 | 1.00 | **36,320.00** |
| LHC17114009 | 5-50 | 0.5 | 1.40 | 0.60 | **36,320.00** |
| LHC17114016 | 10-100 | 1.0 | 1.30 | 0.50 | **36,320.00** |
| LHC17114020 | 20-200 | 2.0 | 1.20 | 0.40 | **36,320.00** |
| LHC17114022 | 30-300* | 2.0 | 1.40 | 0.30 | **36,320.00** |
| HSN Code | 90318000 | | | | |

# Micropipettes

C3 Lightweight, Ergonomic pipette design for every lab application



Technical Data & Ordering Information - **Fixed volume**

| Model Name | Volume Range (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece |
|---|---|---|---|---|
| LHC37111001 | 1 | 2.5 | 1.8 | **4,020.00** |
| LHC37111002 | 2 | 2.5 | 1.2 | **4,020.00** |
| LHC37111005 | 5 | 1.2 | 0.8 | **4,020.00** |
| LHC37111006 | 10 | 1.0 | 0.5 | **4,020.00** |
| LHC37111008 | 20 | 1.0 | 0.3 | **4,020.00** |
| LHC37111009 | 25 | 0.8 | 0.4 | **4,020.00** |
| LHC37111010 | 30 | 1.2 | 0.4 | **4,020.00** |
| LHC37111012 | 50 | 1.0 | 0.3 | **4,020.00** |
| LHC37111016 | 100 | 0.7 | 0.2 | **4,020.00** |
| LHC37111020 | 200 | 0.6 | 0.2 | **4,020.00** |
| LHC37111021 | 250 | 0.4 | 0.2 | **4,020.00** |
| LHC37111024 | 500 | 0.8 | 0.2 | **4,020.00** |
| LHC37111029 | 1000 | 0.8 | 0.2 | **4,020.00** |
| LHC37111033 | 5000 | 0.6 | 0.2 | **4,020.00** |
| LHC37111038 | 10000 | 0.6 | 0.2 | **4,020.00** |
| HSN Code | 90318000 | | | |

Technical Data & Ordering Information - Variable volume

| Model Name | Volume Range (µl) | Volume Increment (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece ₹ |
|---|---|---|---|---|---|
| LHC37112002 | 0.2-2 | 0.01 | 2.00 | 1.00 | **5,600.00** |
| LHC37112005 | 0.5-10 | 0.10 | 1.00 | 0.50 | **5,600.00** |
| LHC37112008 | 2-20 | 0.10 | 1.00 | 0.30 | **5,600.00** |
| LHC37112016 | 5-50 | 0.50 | 1.00 | 0.30 | **5,600.00** |
| LHC37112020 | 10-100 | 0.50 | 0.70 | 0.20 | **5,600.00** |
| LHC37112024 | 20-200 | 1.00 | 0.60 | 0.20 | **5,600.00** |
| LHC37112029 | 100-1000 | 5.00 | 0.80 | 0.20 | **5,600.00** |
| LHC37112033 | 500-5000 | 50.00 | 0.60 | 0.20 | **5,600.00** |
| LHC37112038 | 1000-10000 | 100.00 | 0.60 | 0.15 | **5,600.00** |
| HSN Code | 90318000 | | | | |

# Micropipettes

C3 Lightweight, Ergonomic pipette design for every lab application



Technical Data & Ordering Information - **8 channel**

| Model Name | Volume Range (µl) | Volume Increment (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece ₹ |
|---|---|---|---|---|---|
| LHC37113001 | 0.5-10 | 0.10 | 1.50 | 1.50 | **20,130.00** |
| LHC37113009 | 5-50 | 0.50 | 1.00 | 0.70 | **20,130.00** |
| LHC37113016 | 10-100 | 0.50 | 1.00 | 0.50 | **20,130.00** |
| LHC37113020 | 20-200 | 1.0 | 0.7 | 0.25 | **20,130.00** |
| LHC37113022 | 30-300 | 1.0 | 0.8 | 0.25 | **20,130.00** |
| HSN Code | 90318000 | | | | |

Technical Data & Ordering Information - **12 channel**

| Model Name | Volume Range (µl) | Volume Increment (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece ₹ |
|---|---|---|---|---|---|
| LHC37114001 | 0.5-10 | 0.1 | 1.50 | 1.50 | **25,160.00** |
| LHC37114009 | 5-50 | 0.5 | 1.00 | 0.70 | **25,160.00** |
| LHC37114016 | 10-100 | 0.5 | 1.00 | 0.50 | **25,160.00** |
| LHC37114020 | 20-200 | 1.0 | 0.70 | 0.25 | **25,160.00** |
| LHC37114022 | 30-300 | 1.0 | 0.80 | 0.25 | **25,160.00** |
| HSN Code | 90318000 | | | | |

# Electronic Micropipettes

Electronic pipettes are ergonomic with features of pipetting, dispensing programs & reduce muscle strain by performing pipetting steps for the user




Technical Data & Ordering Information -

| Model Name | Volume Range (µl) | Volume Increment (µl) | Inaccuracy (%) | Imprecision (%) | Prices / Piece ₹ |
|---|---|---|---|---|---|
| LHC17022008 | 10-200 | 0.1 | 0.6 | 0.2 | **36,990.00** |
| LHC17022012 | 5-100 | 0.1 | 0.8 | 0.2 | **36,990.00** |
| LHC17022016 | 250 - 5000 | 5 | 0.6 | 0.2 | **36,990.00** |
| LHC17022024 | 50 - 1000 | 1 | 0.6 | 0.2 | **36,990.00** |
| LHC17022042 | 0.5-10 | 0.01 | 1 | 1 | **36,990.00** |
| HSN Code | 90318000 | | | | |

# Electronic Micropipettes



## Technical Data & Ordering Information - 8 channel

| Model Name | Volume Range (µl) | Volume Increment (µl) | Prices / Piece ₹ |
|---|---|---|---|
| LHC17023001 | 0.5-10 | 0.010 | **60,120.00** |
| LHC17023002 | 2-20 | 0.01 | **60,120.00** |
| LHC17023016 | 5-100 | 0.10 | **60,120.00** |
| LHC17023020 | 10-200 | 0.10 | **60,120.00** |
| LHC17023022 | 15-300 | 0.10 | **60,120.00** |
| HSN Code | 90318000 | | |

## Technical Data & Ordering Information - 12 channel

| Model Name | Volume Range (µl) | Volume Increment (µl) | Prices / Piece ₹ |
|---|---|---|---|
| LLHC17024001 | 0.5-10 | 0.01 | **67,910.00** |
| LHC17024002 | 2-20 | 0.01 | **67,910.00** |
| LHC17024016 | 5-100 | 0.10 | **67,910.00** |
| LHC17024020 | 10-200 | 0.10 | **67,910.00** |
| LHC17024022 | 15-300 | 0.10 | **67,910.00** |
| | | | |

# Electronic Pipette Controller




FAST PIPETTE Pipette Controller:

Pipette filling device

| Product Code | Description |
|---|---|
| LHC17005011 | Pipette filling device |
| HSN Code | 0318000 |
| **Prices / Piece** | **19,700.00** |

# Premium Micro Pipette Tips

- Free of PCR inhibitors, lubricants and heavy metals
- With graduations for visual control of liquid transfer
- Certified DNase, RNase and Pyrogen Free
- Produced from special diamond polish mould using medical grade virgin polypropylene which provides very high transparency
- Available in both standard as well as low retention
- With no secondary treatment and with no silicone additives for low retention
- With special PE filters for prevention of aerosols and contamination
- Specifically configured to fit major Pipette Brands available worldwide

## FILTER TIPS

BOROSIL filter tips are manufactured using specifically developed Polyethylene filters to block aerosols from entering into the pipette.

This helps in prevention of cross contamination.

Ideal for use in applications like sequencing, DNA amplification, Tissue culture, RT-PCR and other critical protocols.

## LOW RETENTION TIPS

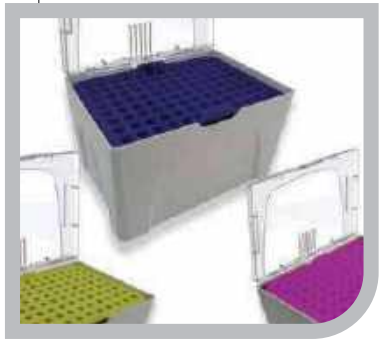
BOROSIL low retention tips are manufactured from a specific resin in combination with high quality diamond finish moulds to give super hydrophobic internal surface. This results in tips having minimum retention with maximum accuracy.

Further since no silicone treatment is given, there is absolutely no leaching effect.

Bulk



Empty Tip Boxes



Reloading Stack



Rack



# Tips and Filter Tips

| | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| 10 XL-FILTER-TIP | 10 XL-Tip | 10 XN-tips | 10 XN-with-Filter-Tips | 10µL LONG |
|  |  |  |  |  |
| 10µL XL Extra Narrow | 10µL | 20-200 with filter | 100 µL-Tip | 100µL |
|  |  |  |  |  |
| 200 µL-FILTER-TIP | 100 µL-Tip | 100 µL | 200 µL-FILTER-TIP | 200 µL-Tip |
|  |  |  |  |  |
| 200 XL-Tips | 200 XL-with-Filter-Tips | 200 µL | 300µL | 1000 µL-FILTER-TIP |
|  |  |  |  |  |
| 1000 µL-Tip | 1000µL | 1000XL-LONG-TIP | 1000XL-LONG-TIP-WITH-FILTER | 1250µL |
|  |  |  |  |  |
| AT-5000A | AT-5000A | AT-5000B | AT-5000B | AT-10000A |

| | | |
|---|---|---|
|  |  |  |
| AT-10000A | AT-10000B | AT-10000B |

# Tips

The ergonomically optimized cone geometry provides the optimal pipette fit for Labquest Pipette

## Technical Data & Ordering Information

### Universal Graduated Tips Bulk Pack

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT0000010B | BGT-10B | 10 | - | 1000 Tips / pack | **570.00** |
| BGT0000200B | BGT-200B | 200 | - | 1000 Tips/ pack | **530.00** |
| BGT0001000B | BGT-1000B | 1000 | - | 1000 Tips/ pack | **800.00** |
| BGT0C10005000B | BGT-C10005 | 5000 | Only C1 | 100 Tips/ pack | **1,280.00** |
| BGT0C30005000B | BGT-C30005 | 5000 | Only C3 | 100 Tips/ pack | **1,280.00** |
| BGT0C10010000B | BGT-C10010 | 10000 | Only C1 | 100 Tips/ pack | **2,890.00** |
| BGT0C30010000B | BGT-C30010 | 10000 | Only C3 | 100 Tips/ pack | **2,890.00** |

### Universal Graduated Tips Racks

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT0000010R | BGT-10 | 10 | - | 10 X 96 Tips/rack | **2,380.00** |
| BGT0000200R | BGT-200R | 200 | - | 10 X 96 Tips/rack | **2,260.00** |
| BGT0001000R | BGT-1000R | 1000 | - | 6 X 96 Tips/ rack | **1,460.00** |

### Universal Graduated Tips Racks Sterile

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT000010SR | BGT-10SR | 10 | - | 10 X 96 Tips/rack | **2,570.00** |
| BGT000200SR | BGT-200SR | 200 | - | 10 X 96 Tips/rack | **2,440.00** |
| BGT001000SR | BGT-1000SR | 1000 | - | 6 X 96 Tips/ rack | **1,690.00** |

### Universal Graduated Tip Racks Sterile Low Retention

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT00010SLR | BGT-10SLR | 10 | - | 10 X 96 Tips/rack | **2,740.00** |
| BGT00200SLR | BGT-200SLR | 200 | - | 10 X 96 Tips/rack | **2,680.00** |
| BGT01000SLR | BGT-1000SLR | 1000 | - | 6 X 96 Tips/ rack | **2,190.00** |

### Universal Graduated Tip Reload Stack Sterile

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT000010SZ | BGT-10SZ | 10 | - | 10 X 96 Tips / rack | **1,760.00** |
| BGT000200SZ | BGT-200SZ | 200 | - | 10 X 96 Tips / rack | **1,680.00** |
| BGT001000SZ | BGT-1000SZ | 1000 | - | 5 x 96 Tips/ rack | **1,260.00** |

### Universal Graduated Tip Reload Stack Sterile Low Retention

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT00010SLZ | BGT-10SLZ | 10 | – | 10 X 96 Tips / rack | **2,060.00** |
| BGT00200SLZ | BGT-200SLZ | 200 | – | 10 X 96 Tips / rack | **2,010.00** |
| BGT01000SLZ | BGT-1000SLZ | 1000 | – | 5 x 96 Tips/ rack | **1,570.00** |

# Filter Tips

Protect pipettes and valuable samples from contamination with Labquest Filter Tips

Technical Data & Ordering Information

### Universal Graduated Filter Tips Bulk Pack

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT000010FB | BGT-10FB | 10 | - | 1000 Tips/ pack | 2,620.00 |
| BGT000020FB | BGT-20FB | 20 | - | 1000 Tips/ pack | 2,620.00 |
| BGT000050FB | BGT-50FB | 50 | - | 1000 Tips/ pack | 2,620.00 |
| BGT000100FB | BGT-100FB | 100 | - | 1000 Tips/ pack | 2,620.00 |
| BGT000200FB | BGT-200FB | 200 | - | 1000 Tips/ pack | 2,620.00 |
| BGT001000FB | BGT-1000FB | 1000 | - | 1000 Tips/ pack | 3,250.00 |

### Universal Graduated Tips Racks

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT000010FR | BGT-10FR | 10 | - | 10 X 96 Tips/rack | 3,740.00 |
| BGT000020FR | BGT-20FR | 20 | - | 10 X 96 Tips/rack | 3,740.00 |
| BGT000050FR | BGT-50FR | 50 | - | 10 X 96 Tips/rack | 3,740.00 |
| BGT000100FR | BGT-100FR | 100 | - | 10 X 96 Tips/rack | 3,740.00 |
| BGT000200FR | BGT-200FR | 200 | - | 10 X 96 Tips/rack | 3,740.00 |
| BGT001000FR | BGT-1000FR | 1000 | - | 6 X 96 Tips/ rack | 2,620.00 |

### Universal Graduated Filter Tip Rack Sterile

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT00010SFR | BGT-10SFR10 | 10 | - | 10 X 96 Tips/rack | 3,870.00 |
| BGT00020SFR | BGT-20SFR | 20 | - | 10 X 96 Tips/rack | 3,870.00 |
| BGT00050SFR | BGT-50SFR | 50 | - | 10 X 96 Tips/rack | 3,870.00 |
| BGT00100SFR | BGT-100SFR | 100 | - | 10 X 96 Tips/rack | 3,870.00 |
| BGT00200SFR | BGT-200SFR | 200 | - | 10 X 96 Tips/rack | 3,870.00 |
| BGT01000SFR | BGT-1000SFR | 1000 | - | 6 X 96 Tips/ rack | 2,880.00 |

### Universal Graduated Filter Tip Rack Sterile Low Retention

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT0010SLFR | BGT-10SLFR | 10 | - | 10 X 96 Tips/rack | 4,740.00 |
| BGT0020SLFR | BGT-20SLFR | 20 | - | 10 X 96 Tips/rack | 4,740.00 |
| BGT0050SLFR | BGT-50SLFR | 50 | - | 10 X 96 Tips/rack | 4,740.00 |
| BGT0100SLFR | BGT-100SLFR | 100 | - | 10 X 96 Tips/rack | 4,740.00 |
| BGT0200SLFR | BGT-200SLFR | 200 | - | 10 X 96 Tips/rack | 4,740.00 |
| BGT1000SLFR | BGT-1000SLFR | 1000 | - | 6 X 96 Tips/ rack | 3,560.00 |

### Empty Tip Box

| Product Code | Short Code | Tip Vol. (µl) | Special Feature | Selling Unit | Price / Piece |
|---|---|---|---|---|---|
| BGT00010ETR | BGT-10ETR | 10 | - | 10 Rack Boxes | 1,860.00 |
| BGT00200ETR | BGT-200ETR | 200 | - | 10 Rack Boxes | 1,860.00 |
| BGT01000ETR | BGT-1000ETR | 1000 | - | 6 Rack Boxes | 1,240.00 |

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- Documentation





- LAB REACTOR
- MINI LAB REACTOR
- SCRUBBER
- **C**ONTINUOUS **S**TIRRED **T**ANK **R**EACTOR
- SPECIALITY LAB REACTORS

## LAB REACTOR

| ALR | CLR | BLR | FLR |
|---|---|---|---|
| Advanced Lab Reactor | Compact Lab Reactor | Bench Lab Reactor | Floor Lab Reactor |
| 250mL to 1L<br>2L to 5L | 250mL to 1L<br>2L to 5L | 250mL to 1L | 2L to 5L<br>10L to 25L |

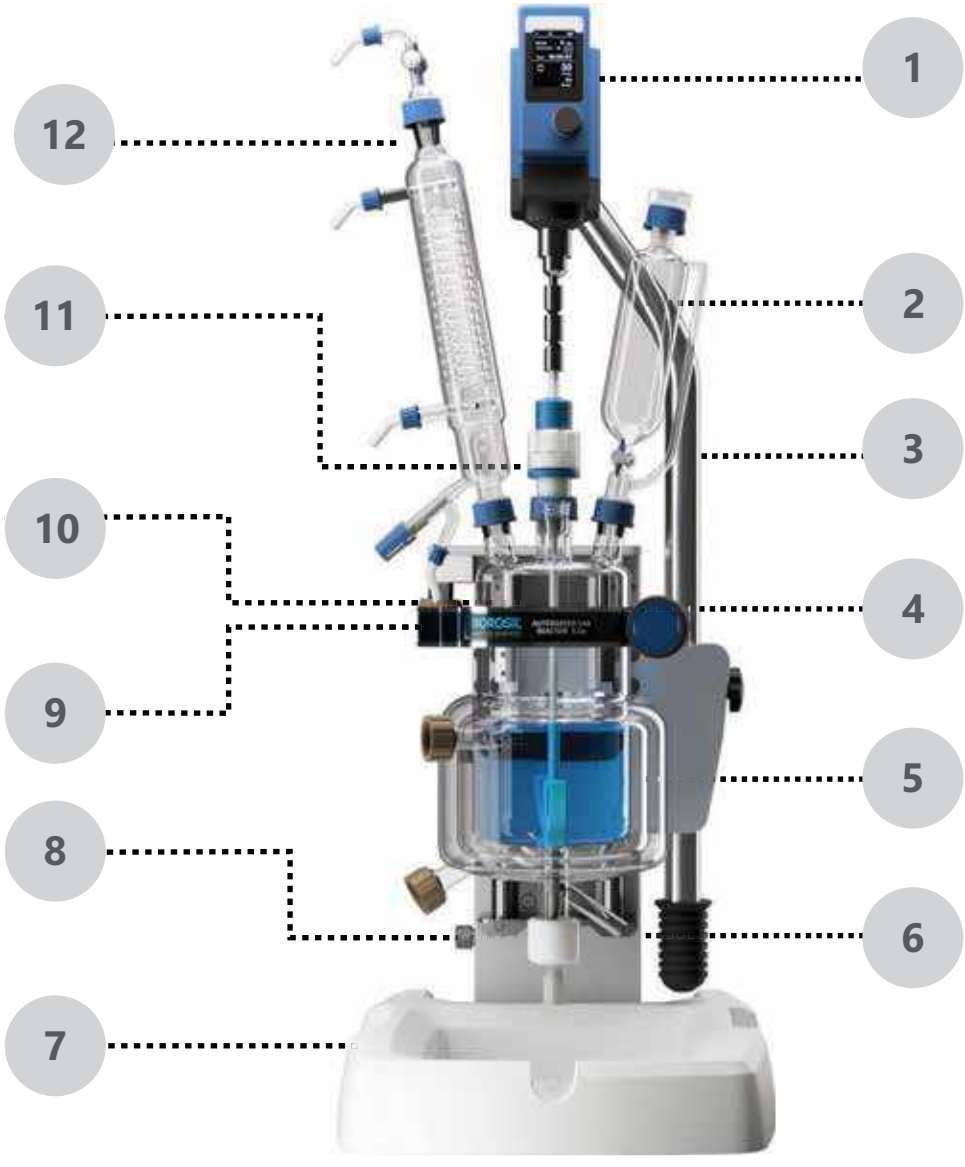
## Smart and Scalable Automation solutions:








# ALR Advanced Lab Reactor

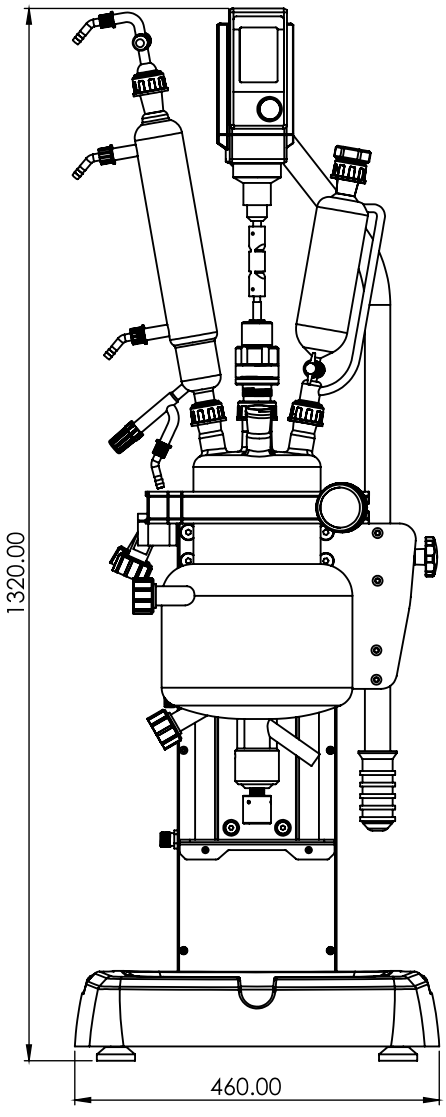


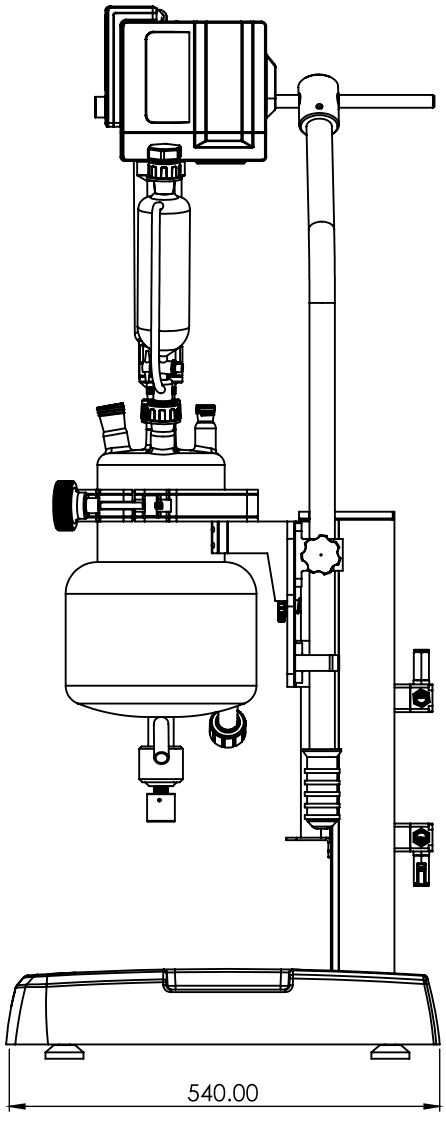

| Sr. No. | Description | Qty | Part Code / Ref |
|---|---|---|---|
| 1 | Agitator Drive | 1 | Table No. 27, 28 |
| 2 | Feeding Funnel | 1 | Table No. 6 |
| 3 | Stirrer Lifting Shaft | 1 | BLARCLR0050STRSHFT |
| 4 | Integrated Neck Clamp | 1 | Table No. 9 |
| 5 | Reactor Vessel | 1 | Table No. 1, 2 |
| 6 | Mounting Skid | 1 | Table No. 11 |
| 7 | Drip Tray | 1 | Table No. 15 |
| 8 | Flush Bottom Valve | 1 | Table No. 13 |
| 9 | Hose Tidy | 2 | Table No. 12 |
| 10 | Lid | 1 | Table No. 3 , 4 |
| 11 | Agitator Accessories | 1 | Table No. 14 |
| 12 | Condenser | 1 | Table No. 5 |

**Advanced Lab Reactor** incorporates a wide range of vessels ranging from 250mL to 5L with DN100 and DN150 neck. The product also features easy stirrer drive adjustment, single pole stirrer lift mechanism, chemical resistant collection tray. The unit is capable of full automation, making the complete reaction process hassle-free and safe for users.

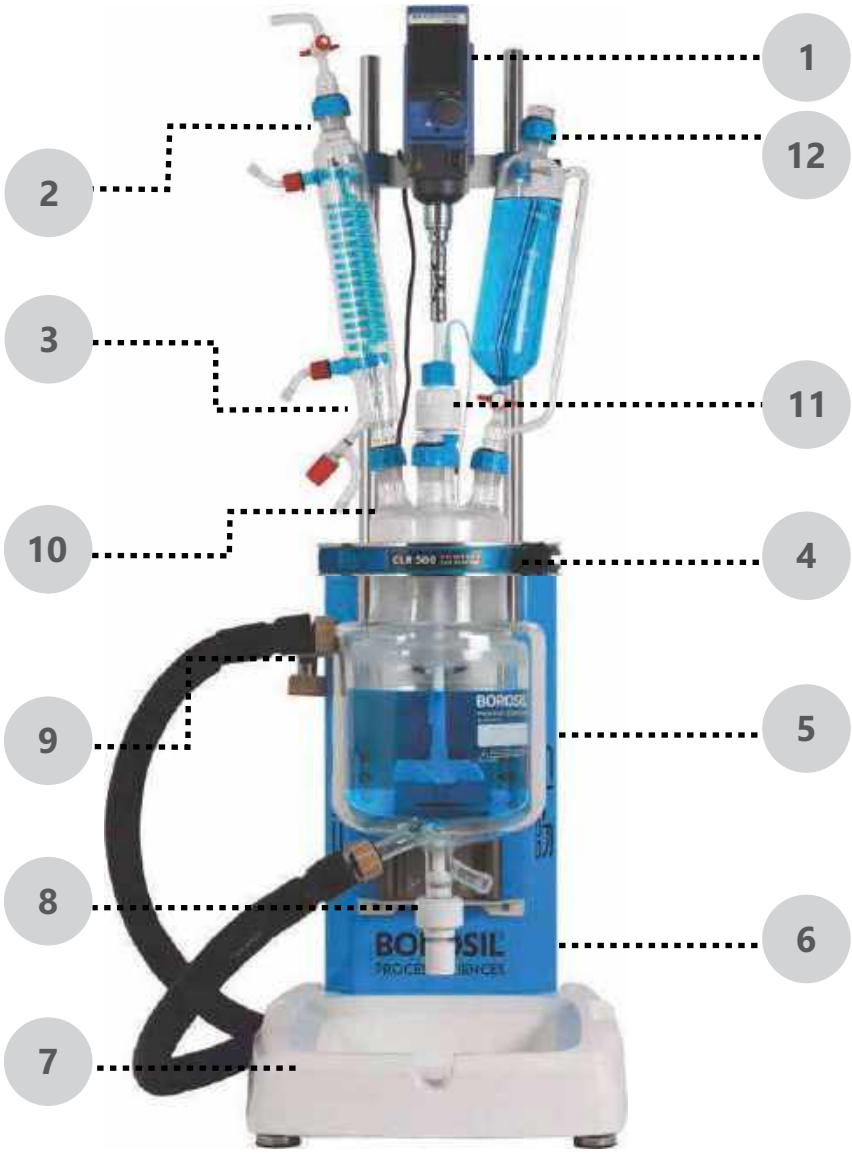
| Assembly Code | Capacity | Temperature °C | Pressure Barg | Flange Dia | L x B x H mm | Jacket | Price / Piece ₹ |
|---|---|---|---|---|---|---|---|
| BLMRALR250XJ000000 | 250 mL | -40 to 200 | +/- 1 | DN 100 | 460 x 540 x 1320 | Single/ Double | **On request** |
| BLMRALR500XJ000000 | 500 mL | -40 to 200 | +/- 1 | DN 100 | 460 x 540 x 1320 | Single/ Double | **On request** |
| BLMRALR750XJ000000 | 750 mL | -40 to 200 | +/- 1 | DN 100 | 460 x 540 x 1320 | Single/ Double | **On request** |
| BLMRALR001XJ000000 | 1 L | -40 to 200 | +/- 1 | DN 100 | 460 x 540 x 1320 | Single/ Double | **On request** |
| BLMRALR002XJ000000 | 2 L | -40 to 200 | +/- 1 | DN 150 | 460 x 540 x 1320 | Single/ Double | **On request** |
| BLMRALR003XJ000000 | 3 L | -40 to 200 | +/- 1 | DN 150 | 460 x 540 x 1320 | Single/ Double | **On request** |
| BLMRALR005XJ000000 | 5 L | -40 to 200 | +/- 1 | DN 150 | 460 x 540 x 1320 | Single/ Double | **On request** |

** Customization are available as per requirements.



# CLR Compact Lab Reactor

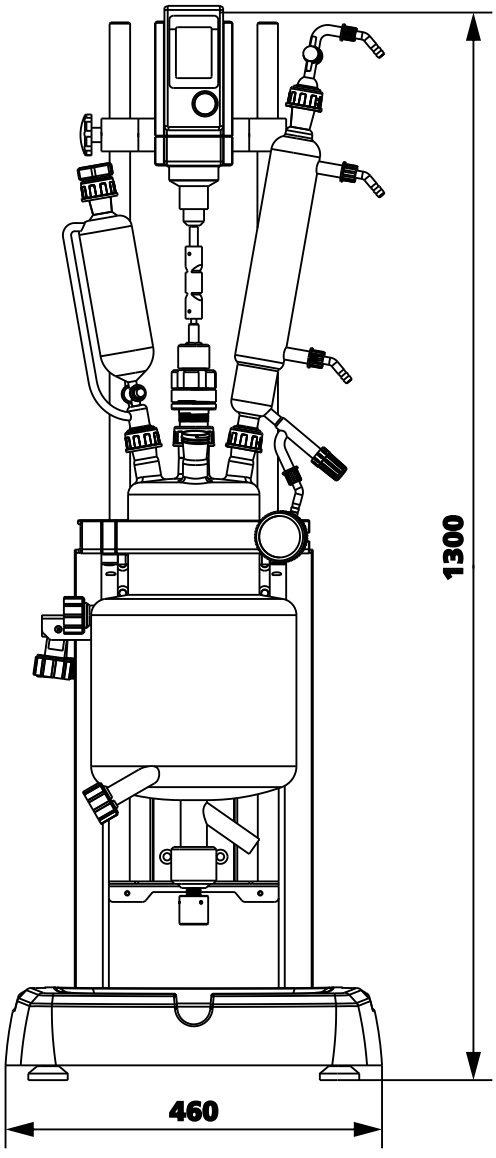


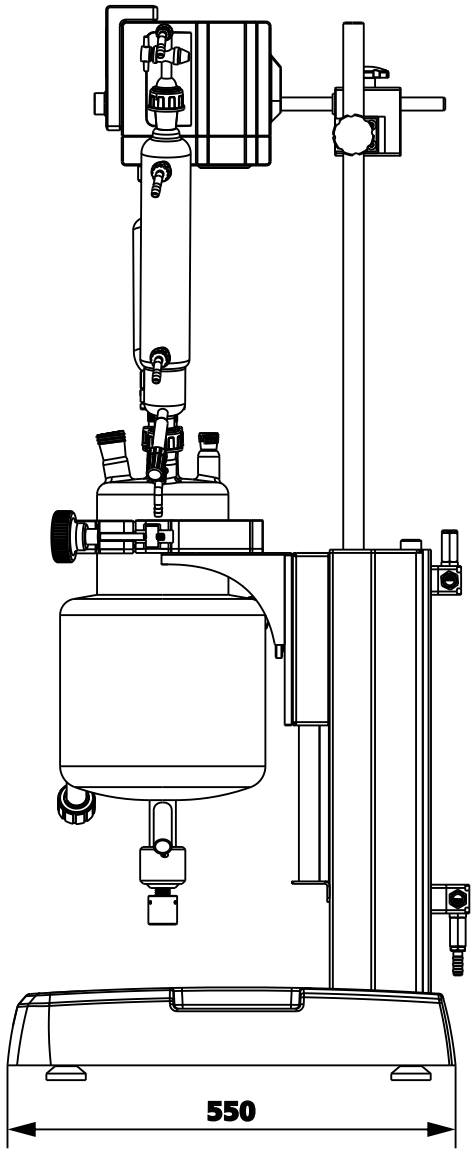

| Sr. No. | Description | Qty | Part Code / Ref |
|---|---|---|---|
| 1 | Agitator Drive | 1 | Table No. 27, 28 |
| 2 | Condenser | 1 | Table No. 5 |
| 3 | Three Pole Stirrer Support | 1 | BLARCLR50010000000 |
| 4 | Integrated Neck Clamp | 1 | Table No. 9 |
| 5 | Reactor Vessel | 1 | Table No. 1, 2 |
| 6 | Mounting Skid | 1 | Table No. 11 |
| 7 | Drip Tray | 1 | Table No. 15 |
| 8 | Flush Bottom valve | 1 | Table No. 13 |
| 9 | Hose Tidy | 2 | Table No. 12 |
| 10 | Lid | 1 | Table No. 3, 4 |
| 11 | Agitator Accessories | 1 | Table No. 14 |
| 12 | Feeding Funnel | 1 | Table No. 6 |

**Compact Lab Reactor** is a compact benchtop lab reactor designed with a three-pole agitator drive lifting mechanism for better stability at higher RPMs. Features such as quick vessel change, sturdy design for high viscous stirring, chemical- resistant collection tray, and torque-limited vessel clamping make CLR500 a preferred lab reactor for users.

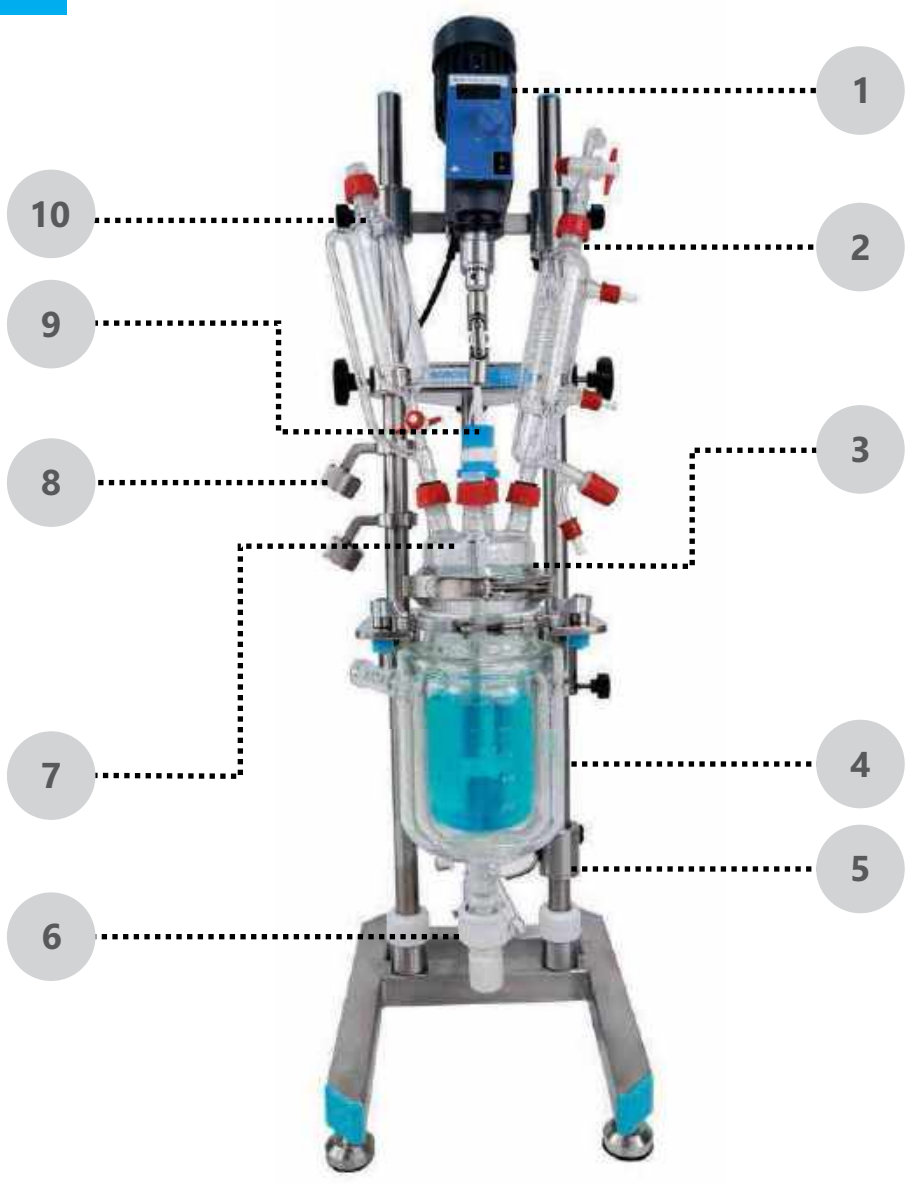
| Assembly Code | Capacity | Temperature °C | Pressure Barg | Flange Dia | L x B x H mm | Jacket | Price / Piece ₹ |
|---|---|---|---|---|---|---|---|
| BLMRCLR250XJ000000 | 250 mL | -40 to 200 | +/- 1 | DN 100 | 460 x 550 x 1300 | Single/ Double | **On request** |
| BLMRCLR500XJ000000 | 500 mL | -40 to 200 | +/- 1 | DN 100 | 460 x 550 x 1300 | Single/ Double | **On request** |
| BLMRCLR750XJ000000 | 750 mL | -40 to 200 | +/- 1 | DN 100 | 460 x 550 x 1300 | Single/ Double | **On request** |
| BLMRCLR001XJ000000 | 1 L | -40 to 200 | +/- 1 | DN 100 | 460 x 550 x 1300 | Single/ Double | **On request** |
| BLMRCLR002XJ000000 | 2 L | -40 to 200 | +/- 1 | DN 150 | 460 x 550 x 1300 | Single/ Double | **On request** |
| BLMRCLR003XJ000000 | 3 L | -40 to 200 | +/- 1 | DN 150 | 460 x 550 x 1300 | Single/ Double | **On request** |
| BLMRCLR005XJ000000 | 5 L | -40 to 200 | +/- 1 | DN 150 | 460 x 550 x 1300 | Single/ Double | **On request** |

** Customization are available as per requirements.



# BLR Bench Lab Reactor

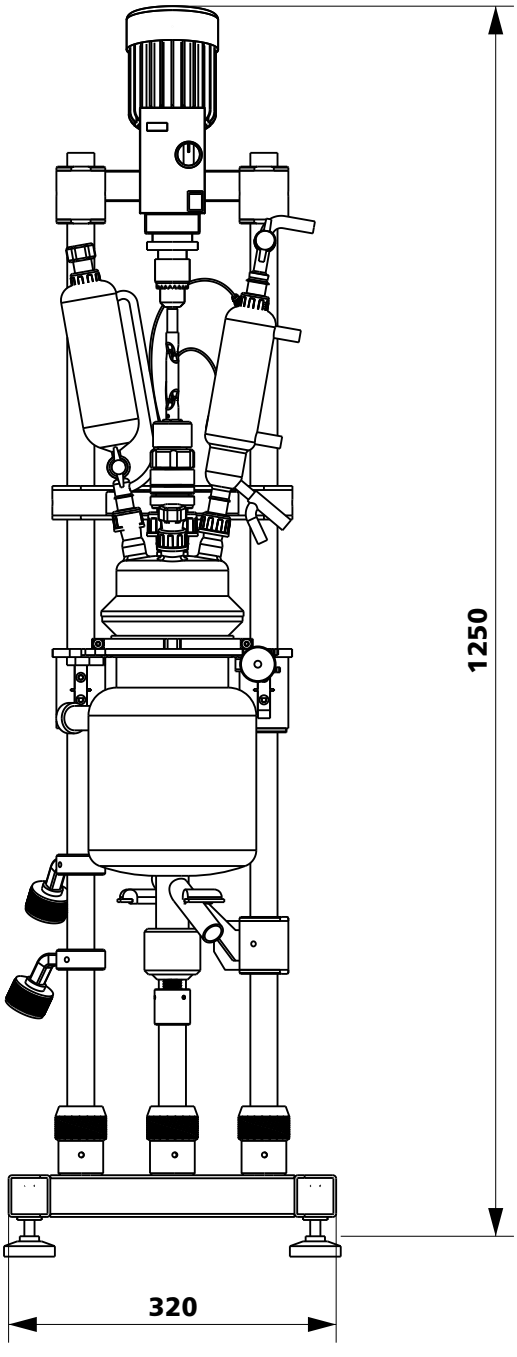


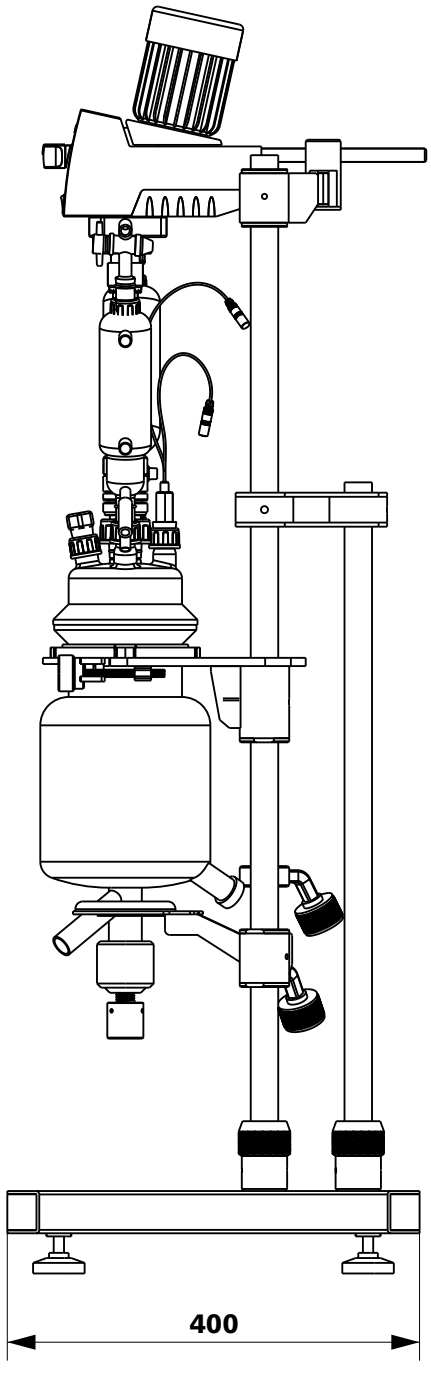

| Sr. No. | Description | Qty | Part Code / Ref |
|---|---|---|---|
| 1 | Agitator Drive | 1 | Table No. 27, 28 |
| 2 | Condenser | 1 | Table No. 5 |
| 3 | Quick Release Clamp | 1 | Table No. 10 |
| 4 | Reactor Vessel | 1 | Table No. 1, 2 |
| 5 | Mounting Skid | 1 | Table No. 11 |
| 6 | Flush Bottom valve | 1 | Table No. 13 |
| 7 | Lid | 1 | Table No. 3, 4 |
| 8 | Hose Tidy | 2 | Table No. 12 |
| 9 | Agitator Accessories | 1 | Table No. 14 |
| 10 | Feeding Funnel | 1 | Table No. 6 |

**Bench Lab Reactor** is available with SS304 tubular skid arrangement and can accommodate a wide range of vessels from 100mL to 1L. The system features rapid and seamless interchangeability of vessel. The unit is available with single or double jacketed vessel, optional electric or pneumatic motor, and other customization options. We provide Teflon-coated skid on special request.

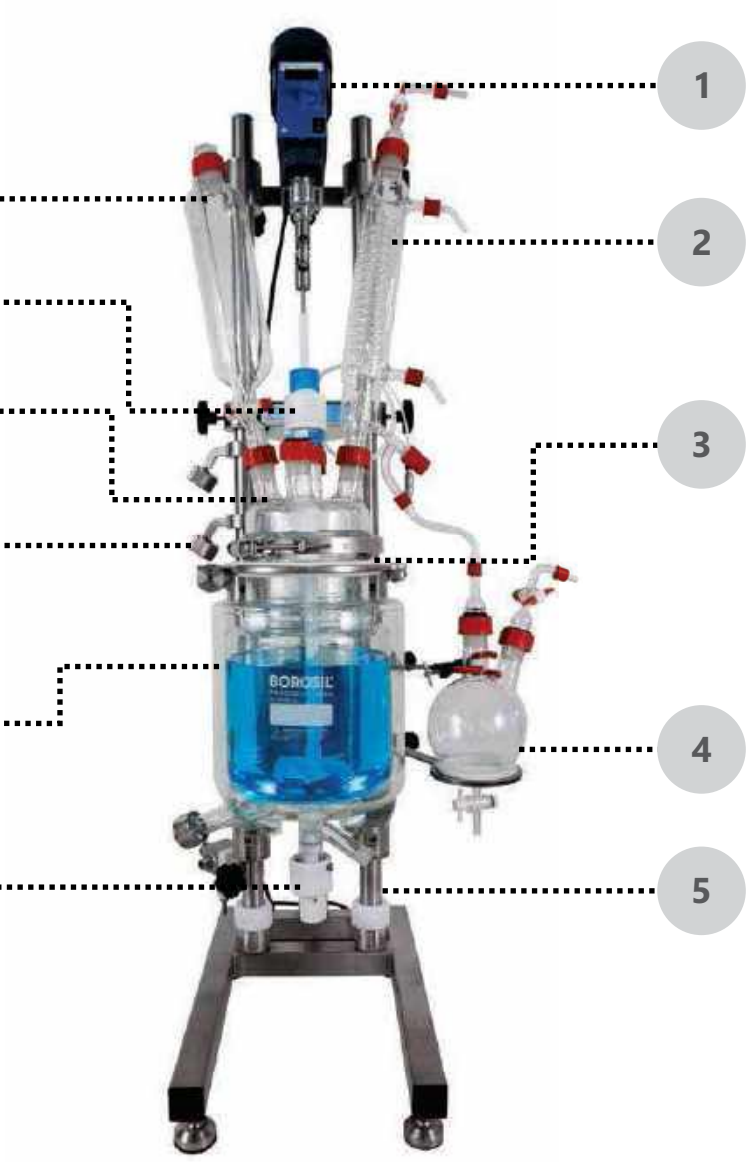
| Assembly Code | Capacity | Temperature °C | Pressure Barg | Flange Dia | L x B x H mm | Jacket | Price / Piece ₹ |
|---|---|---|---|---|---|---|---|
| BLMRBLR250XJ000000 | 250 mL | -40 to 200 | +/- 1 | DN 100 | 320 x 400 x 1250 | Single/ Double | **On request** |
| BLMRBLR500XJ000000 | 500 mL | -40 to 200 | +/- 1 | DN 100 | 320 x 400 x 1250 | Single/ Double | **On request** |
| BLMRBLR750XJ000000 | 750 mL | -40 to 200 | +/- 1 | DN 100 | 320 x 400 x 1250 | Single/ Double | **On request** |
| BLMRBLR001XJ000000 | 1 L | -40 to 200 | +/- 1 | DN 100 | 320 x 400 x 1250 | Single/ Double | **On request** |

** Customization are available as per requirements.



# FLR Floor Lab Reactor MIDI

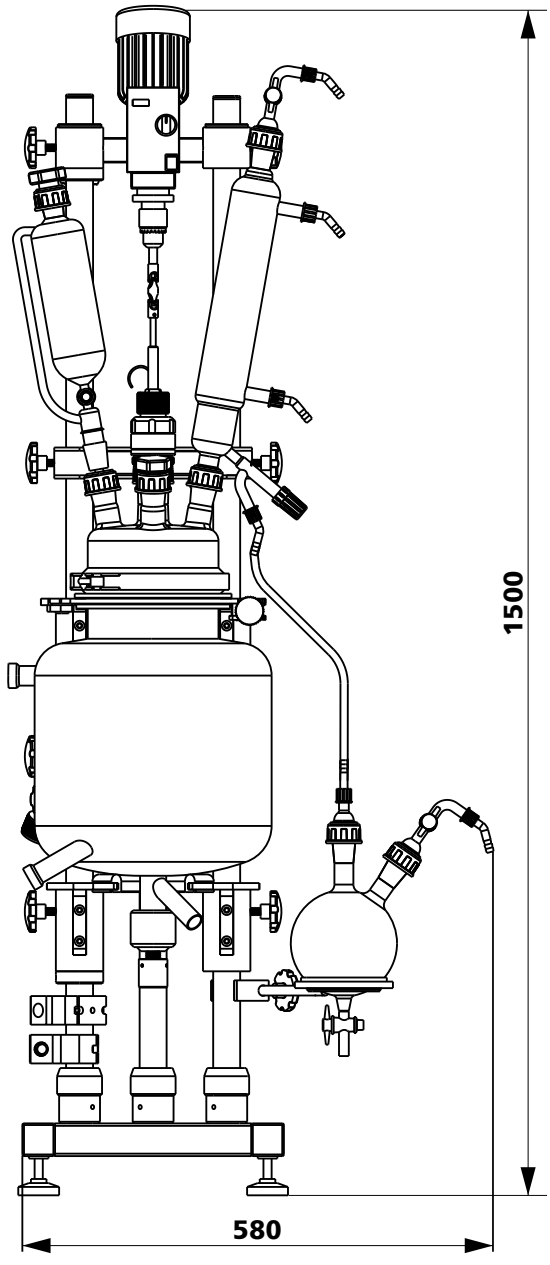


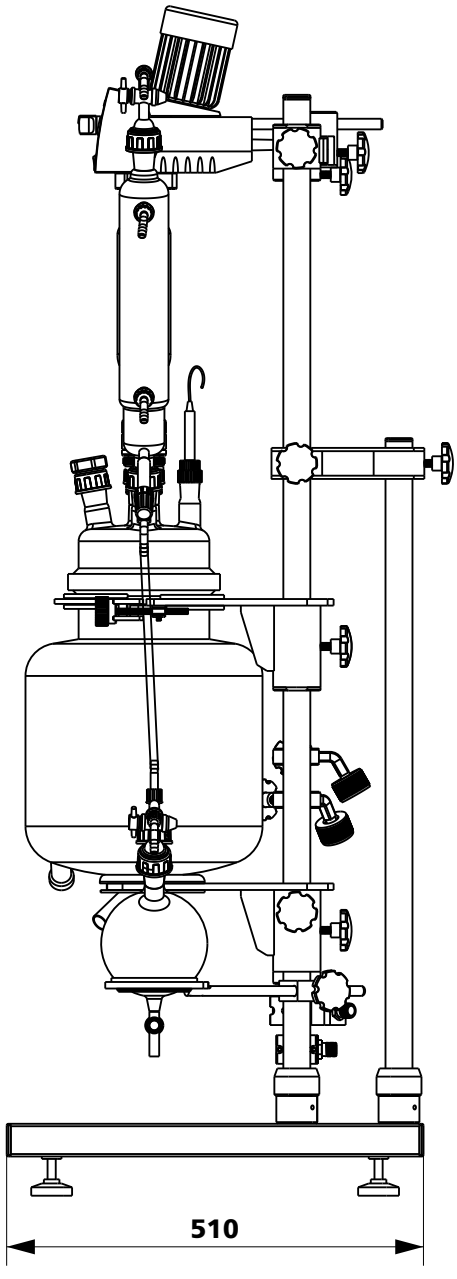

| Sr. No. | Description | Qty | Part Code / Ref |
|---|---|---|---|
| 1 | Agitator Drive | 1 | Table No. 27, 28 |
| 2 | Condenser | 1 | Table No. 5 |
| 3 | Quick Release Clamp | 1 | Table No. 10 |
| 4 | Receiver Vessel | 1 | Table No. 7 |
| 5 | Mounting Skid | 1 | Table No. 11 |
| 6 | Flush Bottom valve | 1 | Table No. 13 |
| 7 | Reactor Vessel | 1 | Table No. 1, 2 |
| 8 | Hose Tidy | 2 | Table No. 12 |
| 9 | Lid | 1 | Table No. 3, 4 |
| 10 | Agitator Accessories | 1 | Table No. 14 |
| 11 | Feeding Funnel | 1 | Table No. 6 |

**Floor Lab Reactor MIDI** is available with SS304 floor-standing tubular skid arrangement and can accommodate a wide range of vessels from 2L to 5L. The system features rapid and seamless interchangeability of vessel. FLR MIDI is available with single or double jacketed vessel, optional electric or pneumatic motor, and other customization options. We provide Teflon-coated skid on special request.

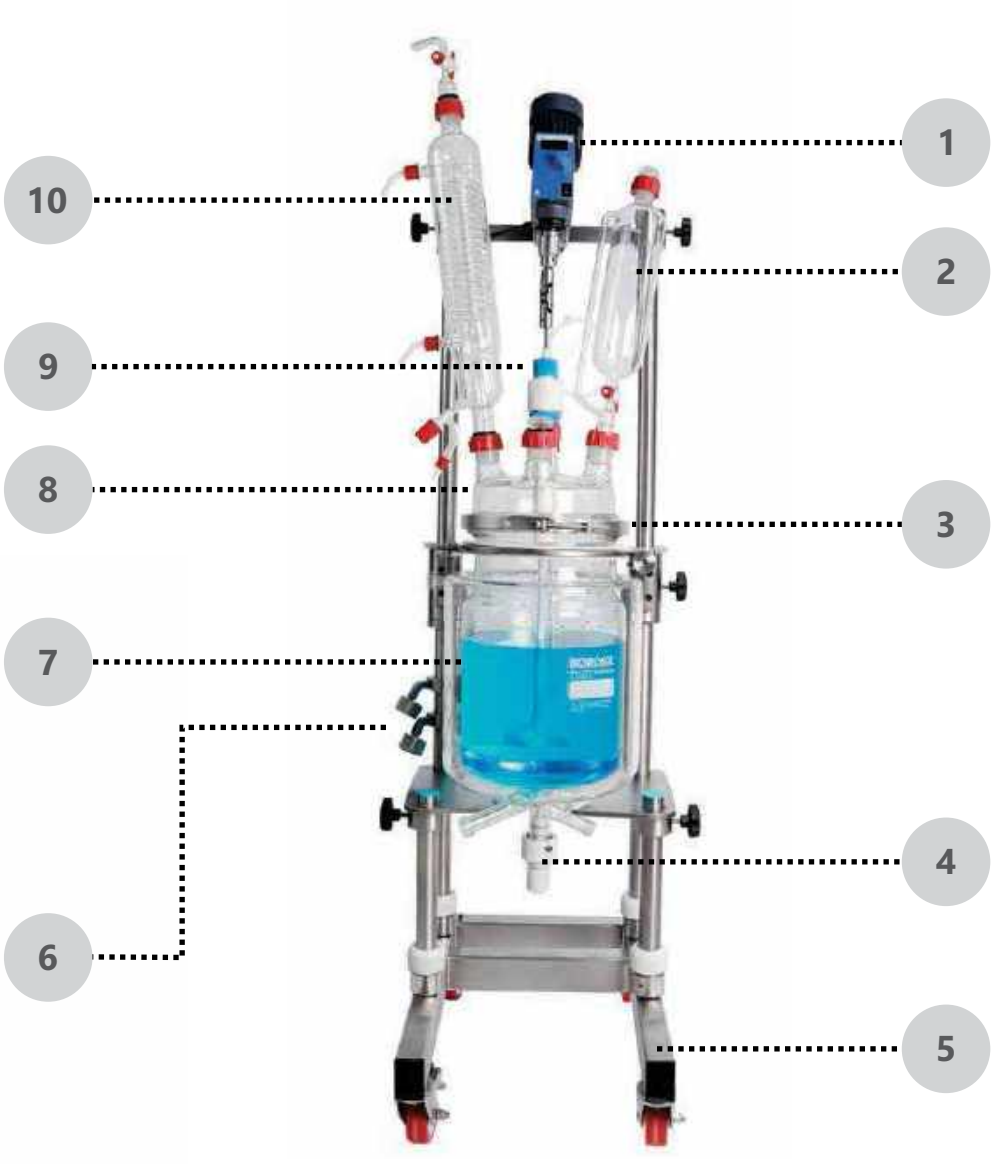
| Assembly Code | Capacity | Temperature °C | Pressure Barg | Flange Dia | L x B x H mm | Jacket | Price / Piece ₹ |
|---|---|---|---|---|---|---|---|
| BLMRFLR002XJ000000 | 2 L | -40 to 200 | +/- 1 | DN 150 | 580 x 510 x 1500 | Single/ Double | **On request** |
| BLMRFLR003XJ000000 | 3 L | -40 to 200 | +/- 1 | DN 150 | 580 x 510 x 1500 | Single/ Double | **On request** |
| BLMRFLR005XJ000000 | 5 L | -40 to 200 | +/- 1 | DN 150 | 580 x 510 x 1500 | Single/ Double | **On request** |

** Customization are available as per requirements.



# FLR Floor Lab Reactor MIDI PILOT

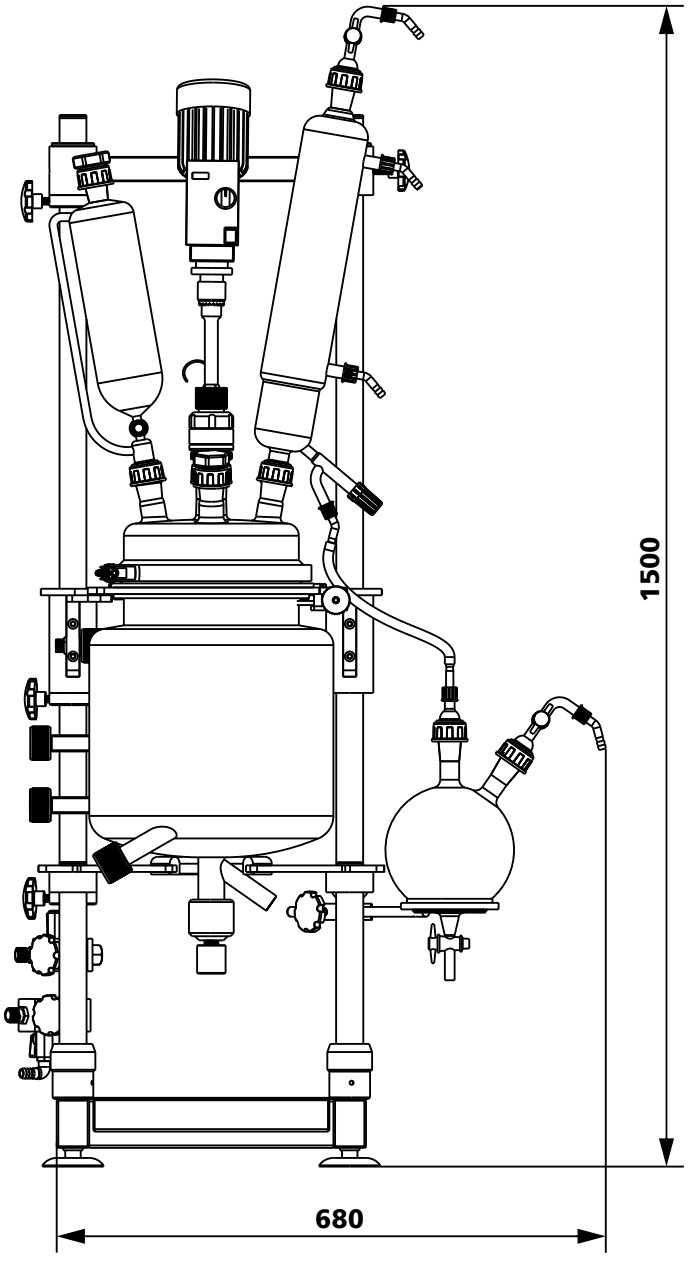


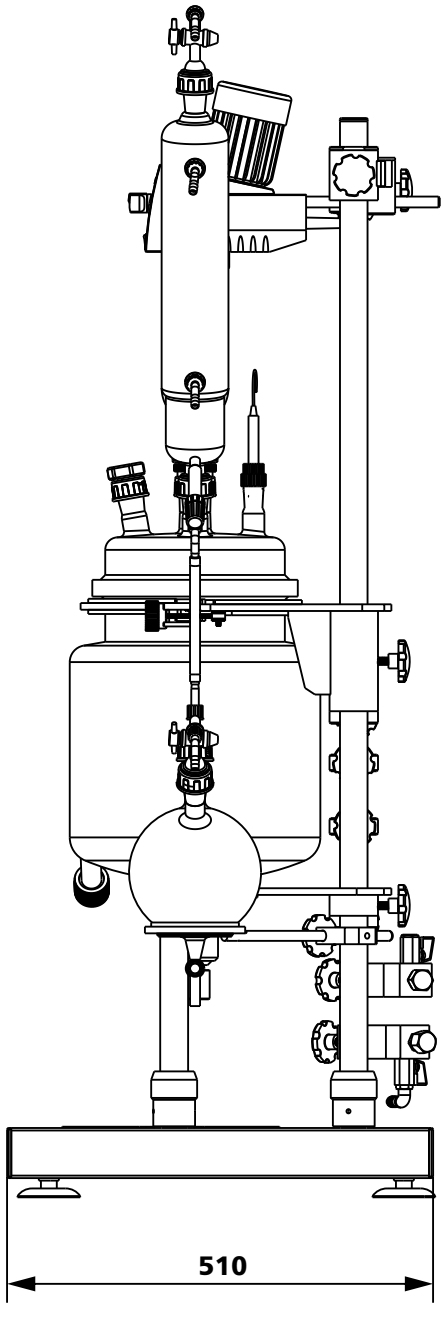

| Sr. No. | Description | Qty | Part Code / Ref |
|---|---|---|---|
| 1 | Agitator Drive | 1 | Table No. 27, 28 |
| 2 | Feeding Funnel | 1 | Table No. 6 |
| 3 | Quick Release Clamp | 1 | Table No. 10 |
| 4 | Flush Bottom Valve | 1 | Table No. 13 |
| 5 | Mounting Skid | 1 | Table No. 11 |
| 6 | Hose Tidy | 2 | Table No. 12 |
| 7 | Reactor Vessel | 1 | Table No. 1, 2 |
| 8 | Lid | 1 | Table No. 3, 4 |
| 9 | Agitator Accessories | 1 | Table No. 14 |
| 10 | Condenser | 1 | Table No. 5 |

**Floor Lab Reactor MIDI Pilot** is available with SS304 floor-standing tubular skid arrangement and can accommodate a wide range of vessels from 10L to 30L.The system features rapid and seamless interchangeability of vessel. FLR MIDI Pilot is available with the single or double jacketed vessel, optionally electric or pneumatic motor, and other customization options. SS304 Skid for all the basic applications. We provide Teflon-coated skid on special request.

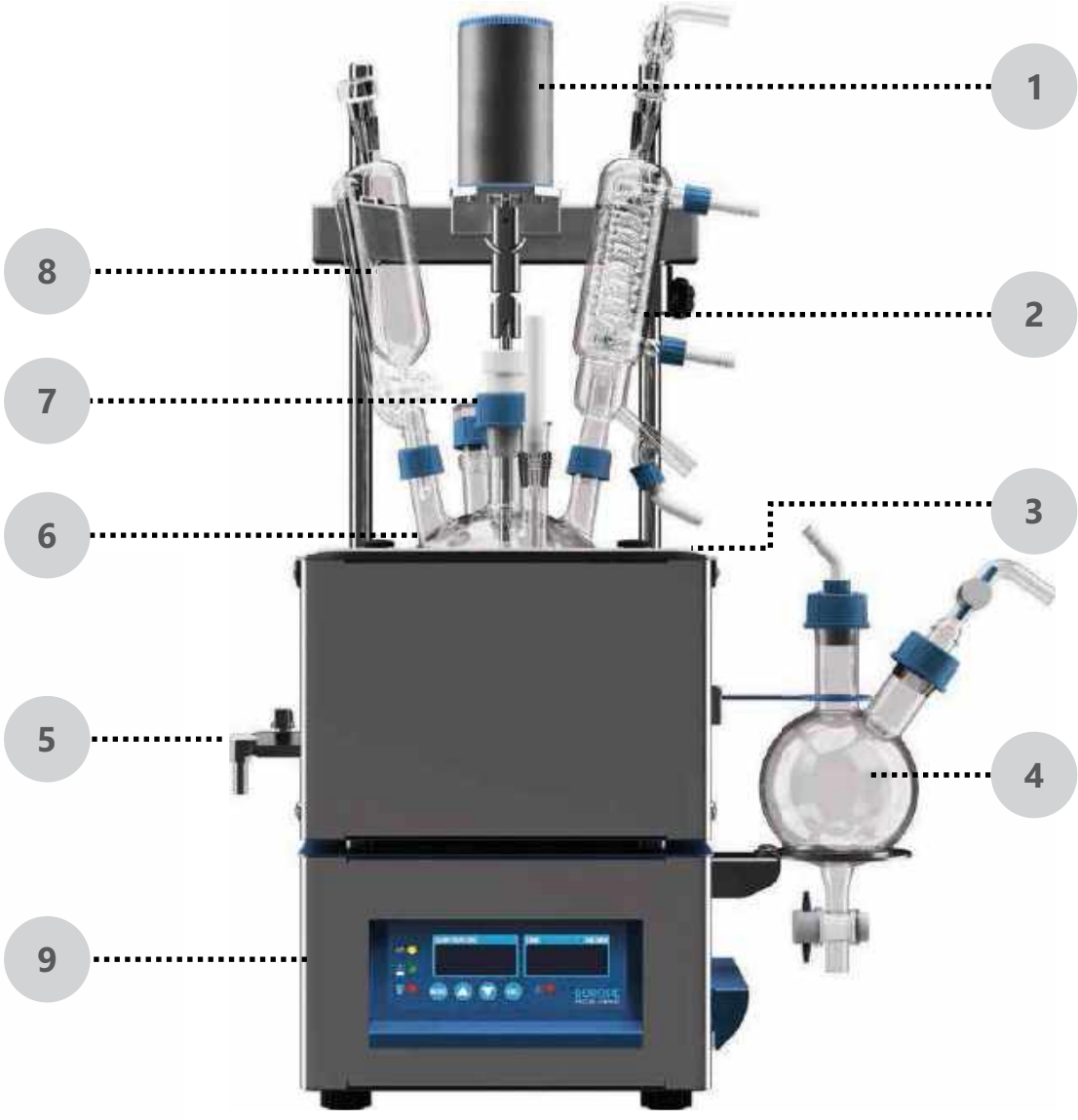
| Assembly Code | Capacity | Temperature °C | Pressure Barg | Flange Dia | L x B x H mm | Jacket | Price / Piece ₹ |
|---|---|---|---|---|---|---|---|
| BLMRFLR010XJ000000 | 10 L | -40 to 200 | +/- 1 | DN 200/300 | 680 x 510 x 1500 | Single/ Double | **On request** |
| BLMRFLR015XJ000000 | 15 L | -40 to 200 | +/- 1 | DN 200/300 | 680 x 510 x 1500 | Single/ Double | **On request** |
| BLMRFLR020XJ000000 | 20 L | -40 to 200 | +/- 1 | DN 200/300 | 680 x 510 x 1500 | Single/ Double | **On request** |
| BLMRFLR025XJ000000 | 25 L | -40 to 200 | +/- 1 | DN 200/300 | 680 x 510 x 1500 | Single/ Double | **On request** |
| BLMRFLR030XJ000000 | 30 L | -40 to 200 | +/- 1 | DN 200/300 | 680 x 510 x 1500 | Single/ Double | **On request** |

** Customization are available as per requirements.



# MLR Mini Lab RBF Reactor

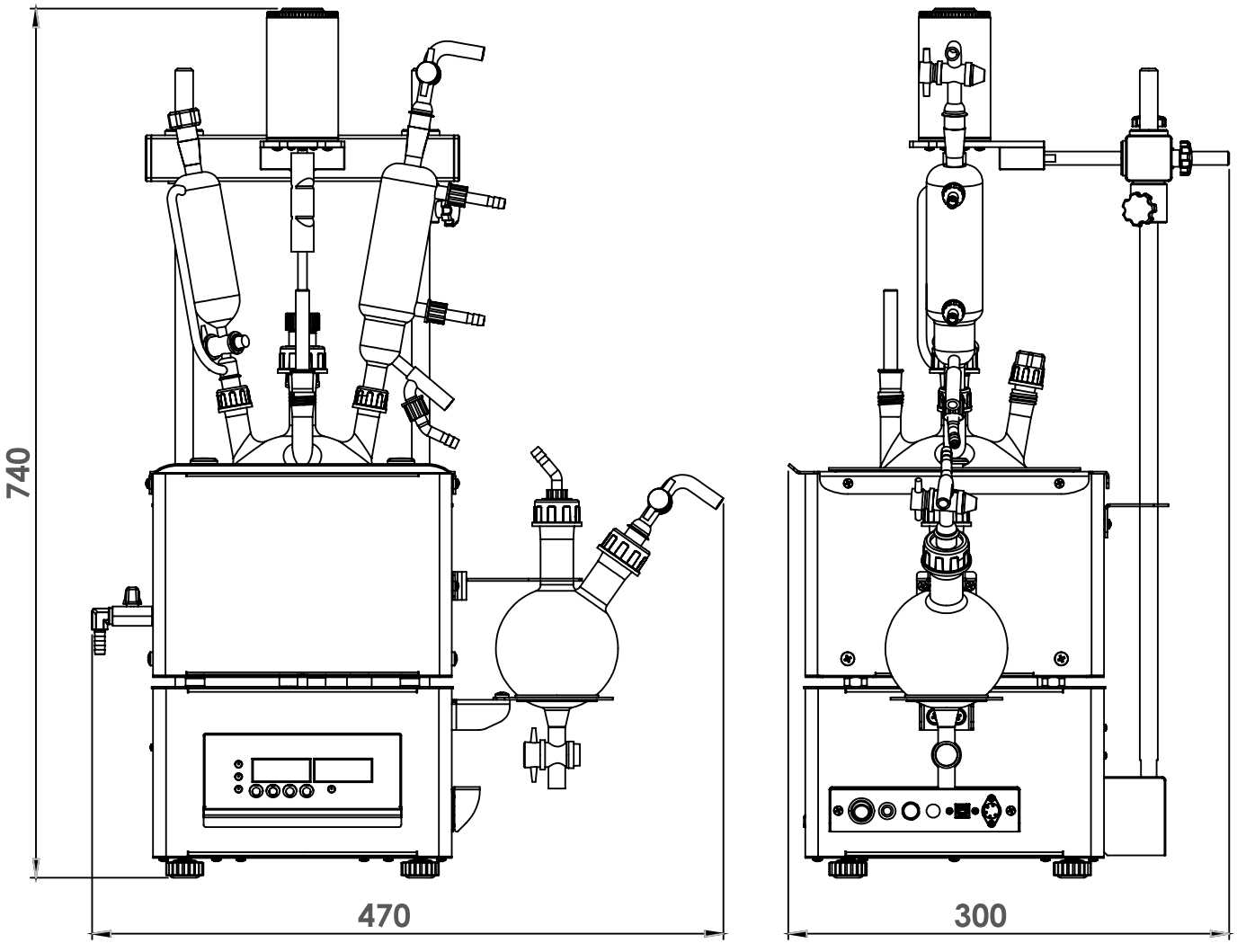



| Sr. No. | Description | Qty | Part Code / Ref |
|---|---|---|---|
| 1 | Agitator Drive | 1 | Table No. 27, 28 |
| 2 | Condenser | 1 | Table No. 5 |
| 3 | Heating Bath | 1 | BLA0MLR02030000000 |
| 4 | Receiver Vessel | 1 | Table No. 7 |
| 5 | Drain | 1 | BLA0BV00BR00080MLR |
| 6 | Round Bottom Flask | 1 | Table No. 8 |
| 7 | Agitator Accessories | 1 | Table No. 14 |
| 8 | Feeding Funnel | 1 | Table No. 6 |
| 9 | Control Unit | 1 | BLA0MLR02020000000 |

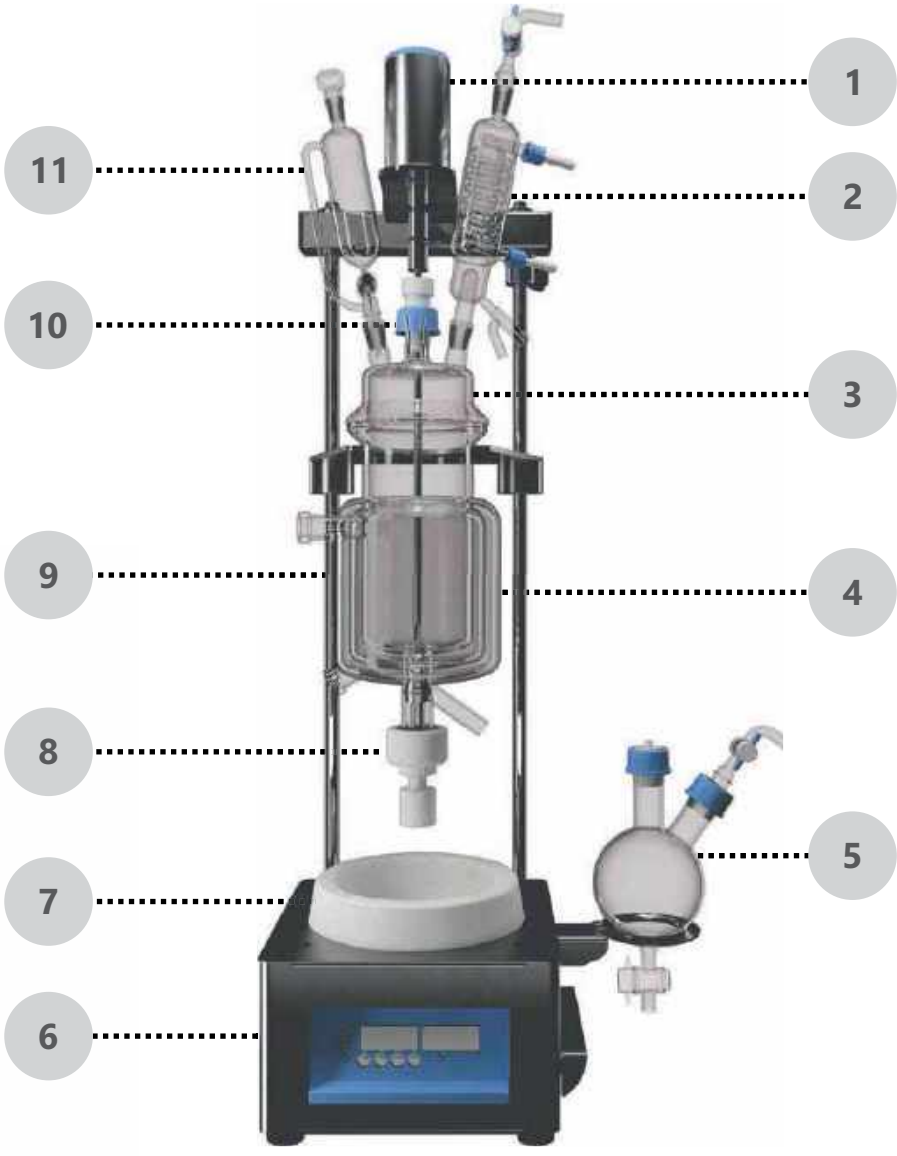
**Mini Lab RBF Reactor** is available with a multi-neck round bottom flask, optimized for academic and research applications. It is a cost-effective solution that includes an oil bath-based heating that eliminates the need for an external heating system. We provide electronic control for temperature, speed, time, and step reaction. We provide Optional cooling to prevent reaction runaway in case of an exothermic reaction. We supply explosion-proof variants for critical applications on special request. Heating Mantle versions are also available as MLM Reactors.

| Assembly Code | Capacity | Temperature °C | Pressure Barg | L x B x H mm | Price / Piece ₹ |
|---|---|---|---|---|---|
| BLFRMLR25000000000 | 250 mL | ambient to 250 | +/- 1 | 470 x 300 x 740 | **On request** |
| BLFRMLR50000000000 | 500 mL | ambient to 250 | +/- 1 | 470 x 300 x 740 | **On request** |
| BLFRMLR00100000000 | 1 L | ambient to 250 | +/- 1 | 470 x 300 x 740 | **On request** |
| BLFRMLR00200000000 | 2 L | ambient to 250 | +/- 1 | 500 x 320 x 730 | **On request** |
| BLFRMLR00300000000 | 3 L | ambient to 250 | +/- 1 | 500 x 320 x 730 | **On request** |
| BLFRMLR00500000000 | 5 L | ambient to 250 | +/- 1 | 550 x 370 x 800 | **On request** |

** Customization are available as per requirements.



# MLJ Mini Lab Jacketed Reactor

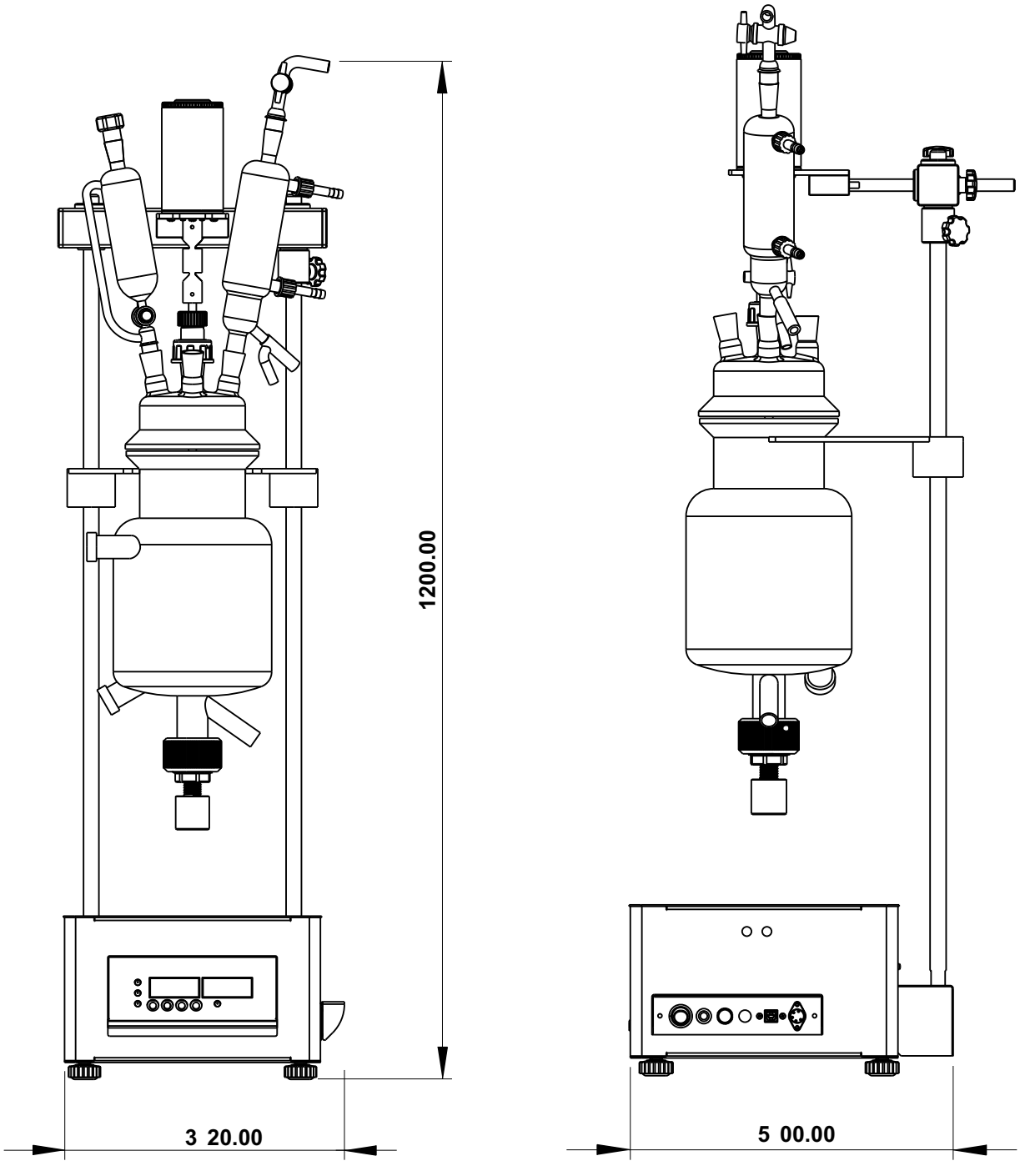



| Sr. No. | Description | Qty | Part Code / Ref |
|---|---|---|---|
| 1 | Agitator Drive | 1 | Table No. 27, 28 |
| 2 | Condenser | 1 | Table No. 5 |
| 3 | Lid | 1 | Table No. 3, 4 |
| 4 | Reactor Vessel | 1 | Table No. 1, 2 |
| 5 | Receiving Vessel | 1 | Table No. 7 |
| 6 | Reactor & Lid | 1 | Table No. 17 |
| 7 | Control Unit | 1 | BLA0MLR02020000000 |
| 8 | Drip Tray | 1 | Table No. 15 |
| 9 | Bottom Valve | 1 | Table No. 13 |
| 10 | Mounting Skid | 1 | Table No. 11 |
| 11 | Feeding Funnel | 1 | Table No. 6 |

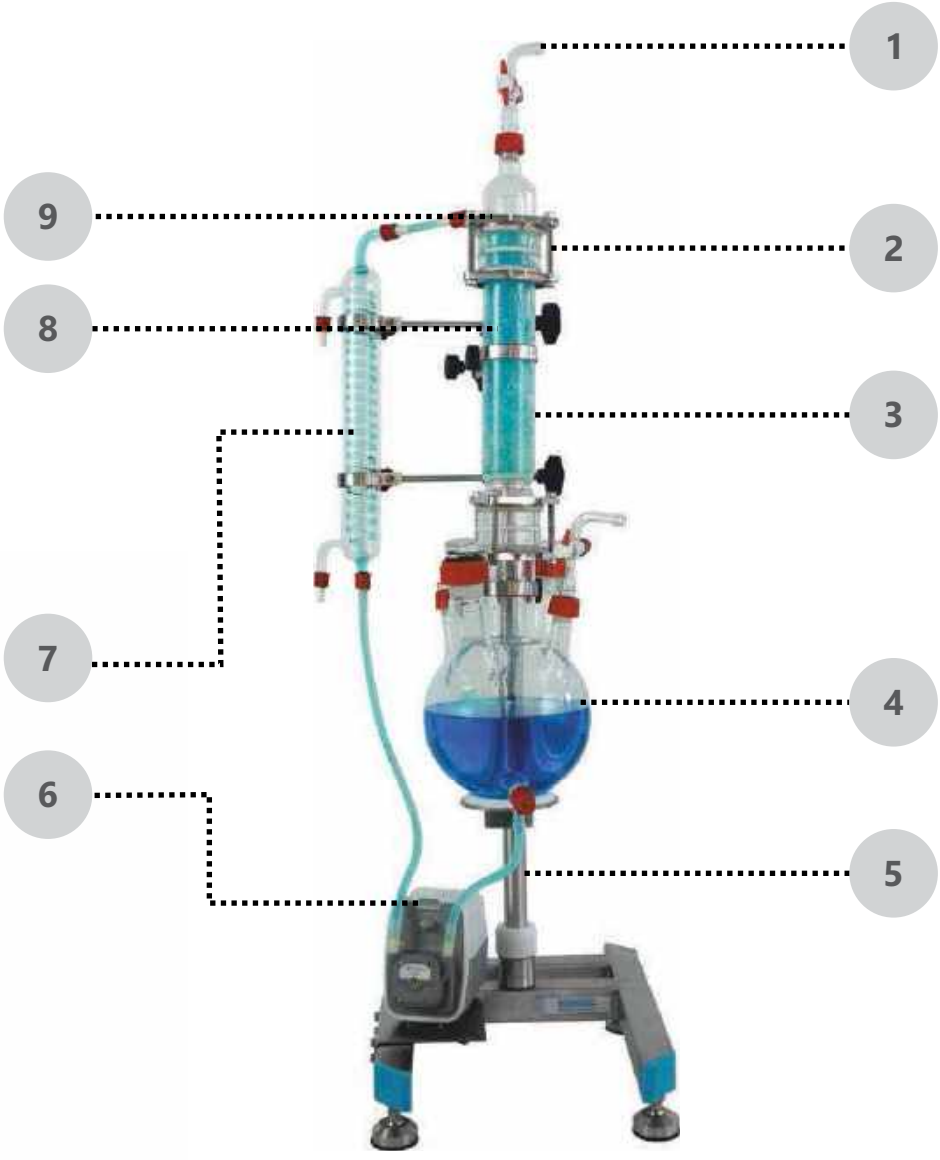
**Mini Lab Jacketed Reactor** optimized for research application with an affordable price and best-in-class features. The reactor is a borosilicate glass single-jacketed reactor using non-schott glass for basic application. We provide inbuilt electronic control for temperature, speed, time, and step reaction.

| Assembly Code | Capacity | Temperature °C | Pressure Barg | L x B x H mm | Price / Piece ₹ |
|---|---|---|---|---|---|
| BLFRMLJ25000000000 | 250 mL | ambient to 250 | +/- 1 | 470 x 300 x 1000 | **On request** |
| BLFRMLJ50000000000 | 500 mL | ambient to 250 | +/- 1 | 470 x 300 x 1000 | **On request** |
| BLFRMLJ75000000000 | 750 mL | ambient to 250 | +/- 1 | 470 x 300 x 1000 | **On request** |
| BLFRMLJ00100000000 | 1 L | ambient to 250 | +/- 1 | 500 x 320 x 1200 | **On request** |
| BLFRMLJ00200000000 | 2 L | ambient to 250 | +/- 1 | 500 x 320 x 1200 | **On request** |

** Customization are available as per requirements.



# SCR Scrubber

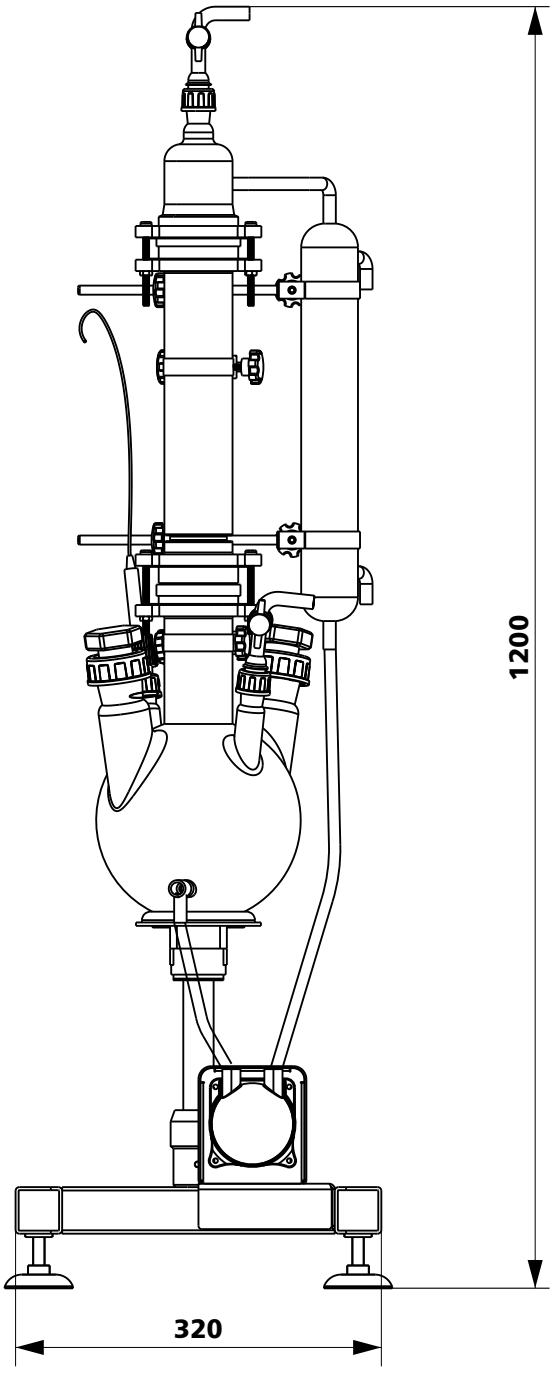


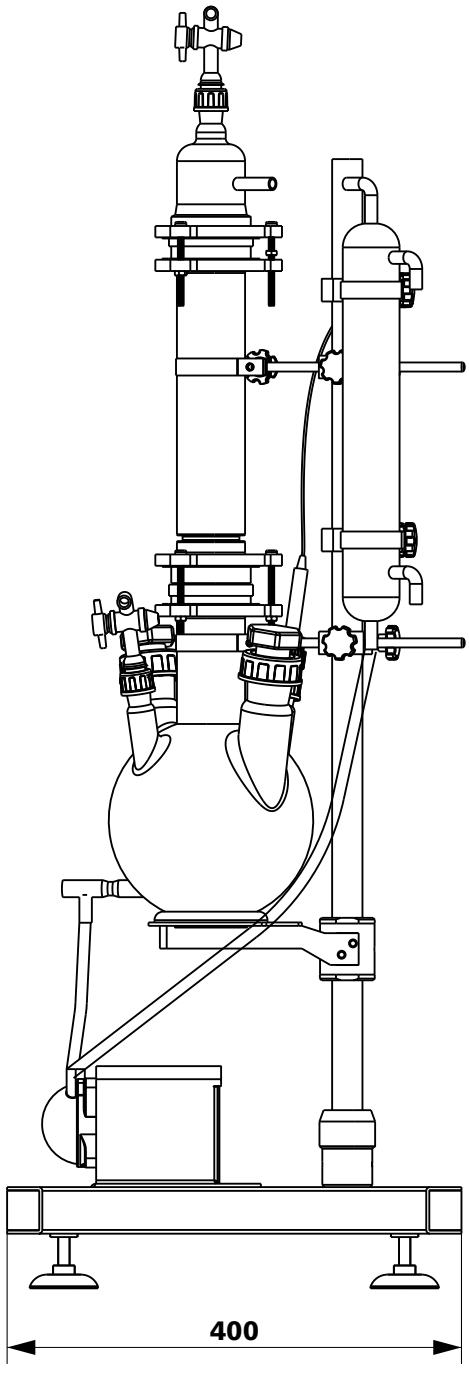

| Sr. No. | Description | Qty | Part Code / Ref |
|---|---|---|---|
| 1 | Gas Vent | 1 | Table No. 23 |
| 2 | Shower Head Adaptor | 1 | Table No. 19 |
| 3 | Absorption Column | 1 | Table No. 20 |
| 4 | Receiver Flask | 1 | Table No. 7 |
| 5 | Mounting Skid | 1 | Table No. 11 |
| 6 | Circulating Pump | 1 | Table No. 26 |
| 7 | Cooling Condenser | 1 | Table No. 21 |
| 8 | Raschig Rings | 1 | Table No. 22 |
| 9 | CT Clamps | 2 | Table No. 24 |

**Scrubber** is available with SS304 tubular skid arrangement and can accommodate 3L, 5L, and 10L. Scrubber is to neutralize harmful exhaust gases by counterflow scrubbing using a suitable reagent. The unit can be used by facilities with stringent work and health safety requirements.

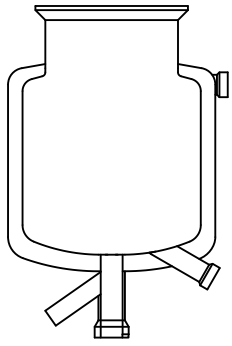
| Assembly Code | Capacity | Temperature °C | Pressure Barg | L x B x H mm | Price / Piece ₹ |
|---|---|---|---|---|---|
| BLFRRSC00300000000 | 3 L | -40 to 200 | +/- 1 | 320 x 400 x 1200 | **On request** |
| BLFRRSC00500000000 | 5 L | -40 to 200 | +/- 1 | 320 x 510 x 1500 | **On request** |
| BLFRRSC01000000000 | 10 L | -40 to 200 | +/- 1 | 550 x 550 x 1500 | **On request** |

** Customization are available as per requirements.



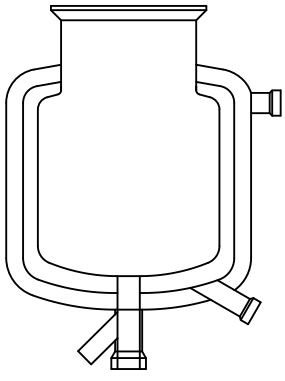



## REACTOR ACCESSORIES :



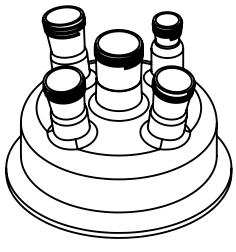
### Reactor Vessel Single Jacketed - Table No. 1

| Part Numbers | Capacity (L) | Flange DN (mm) | Jacket | Jacket Capacity (L) | HT Area (sqm) | Price |
|---|---|---|---|---|---|---|
| BLARFLK1TG250100V1 | 0.25 | 100 | Single | 0.3 | 0.03 | on request |
| BLARFLK1TG500100V1 | 0.50 | 100 | Single | 0.42 | 0.045 | on request |
| BLARFLK1TG750100V1 | 0.75 | 100 | Single | 0.52 | 0.048 | on request |
| BLARFLK1TG001100V1 | 1 | 100 | Single | 0.74 | 0.064 | on request |
| BLARFLK1TG002150V1 | 2 | 150 | Single | 1.45 | 0.084 | on request |
| BLARFLK1TG003150V1 | 3 | 150 | Single | 2 | 0.13 | on request |
| BLARFLK1TG005150V1 | 5 | 150 | Single | 3.12 | 0.14 | on request |
| BLARFLK1TG010200V1 | 10 | 200 | Single | 4.32 | 0.2 | on request |
| BLARFLK1TG015200V1 | 15 | 200 | Single | 5.62 | 0.28 | on request |
| BLARFLK1TG020200V1 | 20 | 200 | Single | 10.56 | 0.4 | on request |
| BLARFLK1TG025200V1 | 25 | 200 | Single | 11.2 | 0.4 | on request |
| BLARFLK1TG025300V1 | 25 | 300 | Single | 12.2 | 0.4 | on request |
| BLARFLK1TG030300V1 | 30 | 300 | Single | 13.48 | 0.42 | on request |



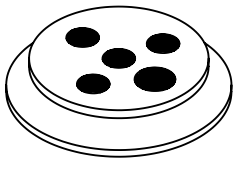
### Reactor Vessel Double Jacketed - Table No. 2

| Part Numbers | Capacity (L) | Flange DN (mm) | Jacket | Jacket Capacity (L) | HT Area (sqm) | Price |
|---|---|---|---|---|---|---|
| BLARFLK2TG250100V1 | 0.25 | 100 | Double | 0.3 | 0.03 | on request |
| BLARFLK2TG500100V1 | 0.50 | 100 | Double | 0.42 | 0.045 | on request |
| BLARFLK2TG750100V1 | 0.75 | 100 | Double | 0.52 | 0.048 | on request |
| BLARFLK2TG001100V1 | 1 | 100 | Double | 0.74 | 0.064 | on request |
| BLARFLK2TG002150V1 | 2 | 150 | Double | 1.45 | 0.084 | on request |
| BLARFLK2TG003150V1 | 3 | 150 | Double | 2 | 0.13 | on request |
| BLARFLK2TG005150V1 | 5 | 150 | Double | 3.12 | 0.14 | on request |
| BLARFLK2TG010200V1 | 10 | 200 | Double | 4.32 | 0.2 | on request |
| BLARFLK2TG015200V1 | 15 | 200 | Double | 5.62 | 0.28 | on request |
| BLARFLK2TG020200V1 | 20 | 200 | Double | 10.56 | 0.4 | on request |
| BLARFLK2TG025200V1 | 25 | 200 | Double | 11.2 | 0.4 | on request |
| BLARFLK2TG025300V1 | 25 | 300 | Double | 12.2 | 0.4 | on request |
| BLARFLK2TG030300V1 | 30 | 300 | Double | 13.48 | 0.42 | on request |



### LID Glass Dome Type - Table No. 3

| Part Numbers | Flange ID (mm) | No. of Nozzles | Center Nozzle | Side Nozzle | Temperature Sensor Nozzle | Price |
|---|---|---|---|---|---|---|
| BLARLID5FG0DN100V1 | 100 | 5 | 24/29 | 29/32 | 19/22 | on request |
| BLARLID5FG0DN150V1 | 150 | 5 | 34/35 | 29/32 | 19/22 | on request |
| BLARLID5FG0DN200V1 | 200 | 5 | 34/35 | 34/35 | 19/22 | on request |
| BLARLID5FG0DN300V1 | 300 | 5 | 34/35 | 34/35 | 19/22 | on request |

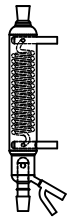


### LID PTFE Flat Type Table No. 4

| Part Numbers | Flange ID (mm) | No. of Nozzles | Center Nozzle | Side Nozzle | Temperature Sensor Nozzle | Price |
|---|---|---|---|---|---|---|
| BLARLID5TEFDN100V1 | 100 | 5 | 24/29 | M25 | M25 | on request |
| BLARLID5TEFDN150V1 | 150 | 5 | 29/32 | M30 | M40 | on request |

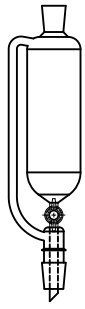
## Condenser Table No. 5

| Part Numbers | Size | HT area | Connection nozzle size | Price |
|---|---|---|---|---|
| BLARCND000D080L520 | D80 LEN 520 | 0.12 | 34/35 | on request |
| BLARCND000D065L450 | D65 LEN 450 | 0.08 | 29/32 | on request |
| BLARCND000D060L320 | D60 LEN 320 | 0.05 | 19/22 | on request |
| BLARCND000D050L260 | D50 LEN 260 | 0.02 | 19/22 | on request |



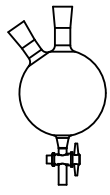
## Feeding Funnel Table No. 6

| Part Numbers | Capacity (mL) | Connection nozzle size | Price |
|---|---|---|---|
| BLARDOF11000MLCOCK | 1000 | 34/35 | on request |
| BLARDOF01000MLCOCK | 1000 | 29/32 | on request |
| BLARDOF00500MLCOCK | 500 | 29/32 | on request |
| BLARDOF00250MLCOCK | 250 | 19/22 | on request |
| BLARDOF00100MLCOCK | 250 | 19/22 | on request |



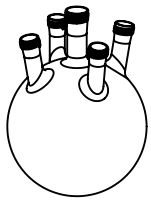
## Receiver Vessel Table No. 7

| Part Numbers | Volume Capacity (mL) | Center Nozzle | Side Nozzles | Price |
|---|---|---|---|---|
| BLARREF00250MLCOCK | 250 | 19/22 | 19/22 | on request |
| BLARREF00500MLCOCK | 500 | 19/22 | 19/22 | on request |
| BLARREF01000MLCOCK | 1000 | 29/32 | 29/32 | on request |
| BLARREF02000MLCOCK | 2000 | 29/32 | 29/32 | on request |



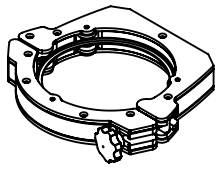
## Round Bottom Flask Table No. 8

| Part Numbers | Volume Capacity (mL) | Center Nozzle | Side Nozzles | Price |
|---|---|---|---|---|
| BLARFLK01000ML00RB | 1000 | 24/29 | 19/22 | on request |
| BLARFLK02000ML00RB | 2000 | 24/29 | 19/22 | on request |
| BLARFLK03000ML00RB | 3000 | 24/29 | 19/22 & 24/29 | on request |
| BLARFLK05000ML00RB | 5000 | 24/29 | 19/22 & 24/29 | on request |



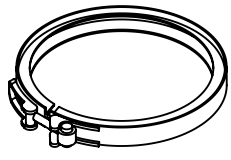
## Integrated Neck Clamp Table No. 9

| Part Numbers | Flange Dia (mm) | Price |
|---|---|---|
| BLARCLR00531DN1000 | DN100 | on request |
| BLARCLR00531DN1500 | DN150 | on request |

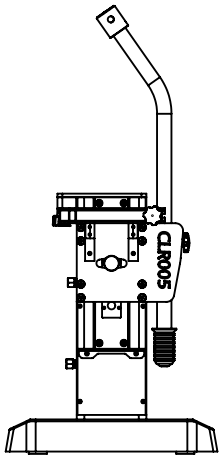


## Quick Release Clamp Table No. 10

| Part Numbers | Flange Dia (mm) | Price |
|---|---|---|
| BLAPCLMPDSS3040146 | DN100 | on request |
| BLAPCLMPDSS3040192 | DN150 | on request |
| BLAPCLMPDSS3040250 | DN200 | on request |

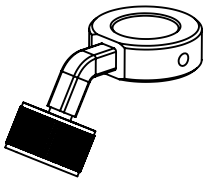


# ACCESSORIES



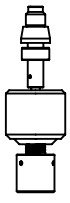
## Mounting Skid Table No. 11

| Part Numbers | Product | Volume Capacity | L x B x H mm | Price |
|---|---|---|---|---|
| BLARALR00510000000 | ALR | 250mL to 5 L | 560 x 560 x 1300 | on request |
| BLARCLR00510000000 | CLR | 250mL to 5 L | 460 x 550 x 1300 | on request |
| BLARBLR00110000000 | BLR | 250mL to 1 L | 320 x 400 x 1250 | on request |
| BLARFLR00510000000 | FLR | 2, 3, 5 L | 580 x 510 x 1500 | on request |
| BLARFLR01510000000 | FLR | 10, 15 L | 680 x 510 x 1500 | on request |
| ~~BLARFLR03010000000~~ | ~~FLR~~ | ~~20, 25, 30 L~~ | ~~750 x 600 x 2000~~ | ~~on request~~ |
| ~~BLARRSC00310000000~~ | ~~RSC~~ | ~~3 L~~ | ~~320 x 400 x 1200~~ | ~~on request~~ |



## Hose Tidy Table No. 12

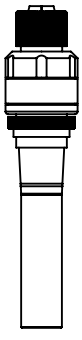
| Part Numbers | Product | MOC | Price |
|---|---|---|---|
| BLARCLR00523000000 | ALR & CLR | PEEK & SS | on request |
| BLARBLR00114000000 | BLR | PEEK & SS | on request |
| BLARFLR00518000000 | FLR MIDI& FLR MIDI PILOT | PEEK & SS | on request |



## Flush Bottom Valve Table No. 13

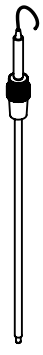
| Part Numbers | Bottom Valve Type | MOC | Drain Nozzle Type | Drain Nozzle Size | Price |
|---|---|---|---|---|---|
| BLARBTV0DN25SL1500 | Flush bottom valve | PTFE, PEEK & SS316 | GL Connection | GL 25 | on request |

## AGITATOR ACCESSORIES :



## Universal Guide Table No. 14.1

| Part Numbers | Shaft Dia | Cone Joint Size | Height (mm) | Guide Dia (mm) | Price |
|---|---|---|---|---|---|
| BLASTRGUIDE1922D06 | 6 | 19/22 | 96 | 45 | on request |
| BLASTRGUIDE2429D08 | 8 | 24/29 | 110 | 45 | on request |
| BLASTRGUIDE2429D06 | 6 | 24/29 | 96 | 45 | on request |
| BLASTRGUIDE2429D06 | 6 | 24/29 | 96 | 45 | on request |
| BLASTRGUIDE2429D08 | 8 | 24/29 | 96 | 45 | on request |
| BLASTRGUIDE2429D10 | 10 | 24/29 | 96 | 45 | on request |
| BLASTRGUIDE3435D10 | 10 | 34/35 | 96 | 45 | on request |
| BLASTRGUIDE3435D12 | 12 | 34/35 | 110 | 55 | on request |
| BLASTRGUIDE3435D16 | 16 | 34/35 | 110 | 55 | on request |

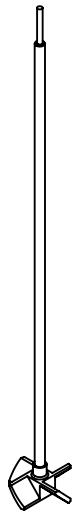


## Temperature Probe Table No. 14.2

| Part Numbers | Dia (mm) | Lenght (mm) | Price |
|---|---|---|---|
| BLATEMPROBE100H06D | 6 | 100 | on request |
| BLATEMPROBE200H06D | 6 | 200 | on request |
| BLATEMPROBE200H08D | 8 | 200 | on request |
| BLATEMPROBE300H08D | 8 | 300 | on request |
| BLATEMPROBE400H08D | 8 | 400 | on request |
| BLATEMPROBE500H09D | 9 | 500 | on request |
| BLATEMPROBE600H09D | 9 | 600 | on request |
| BLATEMPROBE700H09D | 9 | 700 | on request |
| BLATEMPROBE900H09D | 9 | 900 | on request |

## Pitch Blade Turbine Rotor Shaft - Table No. 14.3

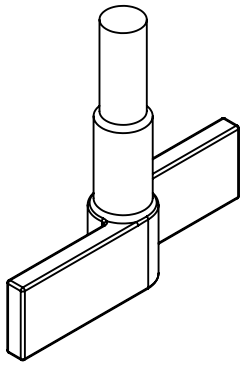
| Part Numbers | Lenght (mm) | Shaft Dia (mm) | Rotor type | Rotor Dia (mm) | Price |
|---|---|---|---|---|---|
| BLASTP0300H06D040R | 300 | 6 | PBT Type | 40 | on request |
| BLASTP0400H06D040R | 400 | 6 | PBT Type | 40 | on request |
| BLASTP0500H16D050R | 500 | 6 | PBT Type | 50 | on request |
| BLASTP0300H08D040R | 300 | 8 | PBT Type | 40 | on request |
| BLASTP0400H08D040R | 400 | 8 | PBT Type | 40 | on request |
| BLASTP0500H08D050R | 500 | 8 | PBT Type | 50 | on request |
| BLASTP0550H10D070R | 550 | 10 | PBT Type | 70 | on request |
| BLASTP0650H10D070R | 650EX | 10 | PBT Type | 70 | on request |
| BLASTP0750H10D070R | 750EX | 10 | PBT Type | 70 | on request |
| BLASTP0650H12D080R | 650EX | 12 | PBT Type | 80 | on request |
| BLASTP0750H12D080R | 750EX | 12 | PBT Type | 80 | on request |
| BLASTP1000H12D080R | 1000EX | 12 | PBT Type | 100 | on request |
| BLASTP0750H12D080R | 750EX | 16 | PBT Type | 80 | on request |
| BLASTP0750H16D100R | 750EX | 16 | PBT Type | 100 | on request |
| BLASTP1000H16D100R | 1000EX | 16 | PBT Type | 100 | on request |
| BLASTP1000H16D120R | 1000EX | 16 | PBT Type | 120 | on request |



**EX - Exposed Length of 50mm.

## Centrifugal Rotor Shaft - Table No. 14.4

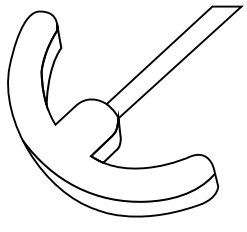
| Part Numbers | Lenght (mm) | Shaft Dia (mm) | Rotor type | Rotor Dia (mm) | Price |
|---|---|---|---|---|---|
| BLASTC0300H06D040R | 300 | 6 | Centrifugal | 40 | on request |
| BLASTC0400H06D040R | 400 | 6 | Centrifugal | 40 | on request |
| BLASTC0500H06D040R | 500 | 6 | Centrifugal | 50 | on request |
| BLASTC0300H08D040R | 300 | 8 | Centrifugal | 40 | on request |
| BLASTC0400H08D040R | 400 | 8 | Centrifugal | 40 | on request |
| BLASTC0500H08D050R | 500 | 8 | Centrifugal | 50 | on request |
| BLASTC0550H10D070R | 550 | 10 | Centrifugal | 70 | on request |
| BLASTC0650H10D070R | 650EX | 10 | Centrifugal | 70 | on request |
| BLASTC0750H10D070R | 750EX | 10 | Centrifugal | 70 | on request |
| BLASTC0650H12D080R | 650EX | 12 | Centrifugal | 80 | on request |
| BLASTC0750H12D080R | 750EX | 12 | Centrifugal | 80 | on request |
| BLASTC1000H12D080R | 1000EX | 12 | Centrifugal | 80 | on request |
| BLASTC0750H16D080R | 750EX | 16 | Centrifugal | 80 | on request |
| BLASTC1000H16D080R | 1000EX | 16 | Centrifugal | 80 | on request |



**EX - Exposed Length of 50mm.

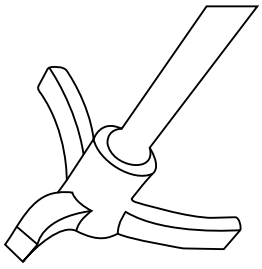
## Anchor Rotor Shaft - Table No. 14.5

| Part Numbers | Lenght (mm) | Shaft Dia (mm) | Rotor type | Rotor Dia (mm) | Price |
|---|---|---|---|---|---|
| BLASTA0300H06D080R | 300 | 6 | Anchor | 80 | on request |
| BLASTA0400H06D080R | 400 | 6 | Anchor | 80 | on request |
| BLASTA0500H06D080R | 500 | 6 | Anchor | 80 | on request |
| BLASTA0300H08D080R | 300 | 8 | Anchor | 80 | on request |
| BLASTA0400H08D080R | 400 | 8 | Anchor | 80 | on request |
| BLASTA0500H08D080R | 500 | 8 | Anchor | 80 | on request |
| BLASTA0550H10D100R | 550 | 10 | Anchor | 100 | on request |
| BLASTA0650H10D140R | 650EX | 10 | Anchor | 140 | on request |
| BLASTA0750H10D140R | 750EX | 10 | Anchor | 140 | on request |
| BLASTA0650H12D140R | 650EX | 12 | Anchor | 140 | on request |
| BLASTA0750H12D140R | 750EX | 12 | Anchor | 140 | on request |
| BLASTA1000H12D140R | 1000EX | 12 | Anchor | 140 | on request |
| BLASTA0750H16D140R | 750EX | 16 | Anchor | 140 | on request |
| BLASTA0750H16D180R | 750EX | 16 | Anchor | 180 | on request |
| BLASTA1000H16D140R | 1000EX | 16 | Anchor | 140 | on request |
| BLASTA1000H16D180R | 1000EX | 16 | Anchor | 180 | on request |



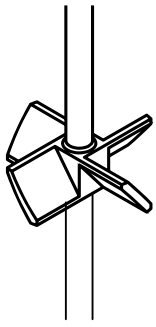
**EX - Exposed Length of 50mm.

# ACCESSORIES



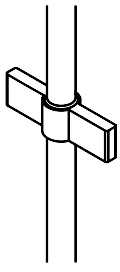
## Retreat Curve - Table No. 14.6

| Part Numbers | Lenght (mm) | Shaft Dia (mm) | Rotor type | Rotor Dia (mm) | Blade Ht (mm) | Price |
|---|---|---|---|---|---|---|
| BLASTR0300H08D050R | 300 | 8 | Retreat Curve | 50 | 10 | on request |
| BLASTR0300H08D075R | 300 | 8 | Retreat Curve | 75 | 15 | on request |
| BLASTR0400H08D050R | 400 | 8 | Retreat Curve | 50 | 10 | on request |
| BLASTR0400H08D075R | 400 | 8 | Retreat Curve | 75 | 15 | on request |
| BLASTR0400H10D050R | 400 | 10 | Retreat Curve | 50 | 10 | on request |
| BLASTR0400H10D075R | 400 | 10 | Retreat Curve | 75 | 15 | on request |
| BLASTR0500H10D050R | 500 | 10 | Retreat Curve | 50 | 10 | on request |
| BLASTR0500H10D075R | 500 | 10 | Retreat Curve | 75 | 15 | on request |
| BLASTR0500H12D125R | 500 | 12 | Retreat Curve | 125 | 18 | on request |



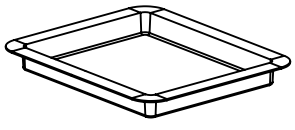
## Adjustable Rotor Pitch Blade Type - Table No 14.7

| Part Numbers | Shaft Dia (mm) | Rotor type | Rotor Dia (mm) | Price |
|---|---|---|---|---|
| BLAADJROTPB06D040R | 6 | PBT | 40 | on request |
| BLAADJROTPB08D040R | 8 | PBT | 40 | on request |
| BLAADJROTPB10D060R | 10 | PBT | 60 | on request |
| BLAADJROTPB10D090R | 10 | PBT | 90 | on request |
| BLAADJROTPB12D070R | 12 | PBT | 70 | on request |
| BLAADJROTPB12D090R | 12 | PBT | 90 | on request |
| BLAADJROTPB16D100R | 16 | PBT | 100 | on request |



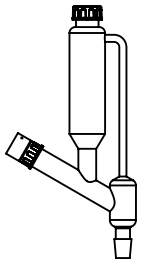
## Adjustable Rotor Flat Type - Table No. 14.8

| Part Numbers | Shaft Dia (mm) | Rotor type | Rotor Dia (mm) | Price |
|---|---|---|---|---|
| BLAADJROTFL06D070R | 6 | Flat | 70 | on request |
| BLAADJROTFL08D070R | 8 | Flat | 70 | on request |
| BLAADJROTFL10D070R | 10 | Flat | 70 | on request |
| BLAADJROTFL10D100R | 10 | Flat | 100 | on request |
| BLAADJROTFL12D100R | 12 | Flat | 150 | on request |
| BLAADJROTFL16D100R | 16 | Flat | 100 | on request |
| BLAADJROTFL16D150R | 16 | Flat | 150 | on request |



## Drip Tray - Table No. 15

| Part Numbers | Product | MOC | Price |
|---|---|---|---|
| BLADRIPTRAYCLR00PP | ALR & CLR | GRP | on request |
| BLADRIPTRAYBLR00PP | BLR | PP | on request |
| BLADRIPTRAYFLR00PP | FLR MIDI& FLR MIDI PILOT | PP | on request |



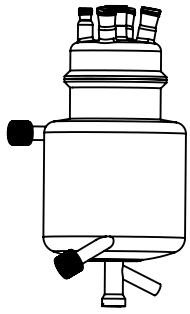
## Solid Dosing Funnel - Table No. 16

| Part Numbers | Volume Capacity (mL) | Connection Nozzle Size | Price |
|---|---|---|---|
| BLARSDOF02501922V1 | 250 | 19/22 | on request |
| BLARSDOF05001922V1 | 500 | 19/22 | on request |
| BLARSDOF05002932V1 | 500 | 29/32 | on request |
| BLARSDOF10002932V1 | 1000 | 29/32 | on request |
| BLARSDOF20002932V1 | 2000 | 29/32 | on request |
| BLARSDOF10003435V1 | 1000 | 34/35 | on request |
| BLARSDOF20003435V1 | 2000 | 34/35 | on request |

## Jacketed Reactors & Lid for MLJ - Table No. 17

| Part Numbers for Reactors | Capacity (L) | Flange DN (mm) | Jacket | Jacket Capacity (L) | HT Area (sqm) | Price |
|---|---|---|---|---|---|---|
| BLARFLK1LG250100V1 | 0.25 | 100 | Single | 0.3 | 0.03 | on request |
| BLARFLK1LG500100V1 | 0.50 | 100 | Single | 0.42 | 0.045 | on request |
| BLARFLK1LG750100V1 | 0.75 | 100 | Single | 0.52 | 0.048 | on request |
| BLARFLK1LG001100V1 | 1 | 100 | Single | 0.74 | 0.064 | on request |
| BLARFLK1LG002100V1 | 2 | 100 | Single | 1.45 | 0.084 | on request |

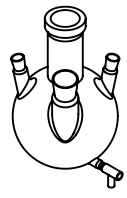
| Part Number for Lid | Flange ID (mm) | No. of Nozzles | Center Nozzle | Side Nozzles | Temperature Sensor Nozzle | Price |
|---|---|---|---|---|---|---|
| BLARLID5LG0DN100V1 | 100 | 5 | 34/35 | 29/32 | 19/22 | on request |



# SCRUBBER ACCESSORIES :

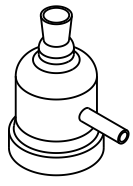
## Scrubber Vessel - Table No. 18

| Part Number | Capacity (L) | No. of Nozzles | Flange ID (mm) | Side Nozzles | Price |
|---|---|---|---|---|---|
| BLARREF03000MLSCRB | 3 | 5 | 50 | 48/38 (Qty:2), 19/22 (Qty:2) | on request |
| BLARREF05000MLSCRB | 5 | 5 | 80 | 48/38 (Qty:2), 19/22 (Qty:2) | on request |
| BLARREF10000MLSCRB | 10 | 5 | 100 | 48/38 (Qty:2), 19/22 (Qty:2) | on request |



## Shower Head Adaptor - Table No. 19

| Part Number | Flange ID (mm) | Price |
|---|---|---|
| BLARSHW00D050L0300 | 50 | on request |
| BLARSHW00D080L0500 | 80 | on request |
| BLARSHW00D100L1000 | 100 | on request |



## Absorption Column - Table No. 20

| Part Number | Flange ID (mm) | Price |
|---|---|---|
| BLARCLM00D050L0300 | 50 | on request |
| BLARCLM00D080L0300 | 80 | on request |
| BLARCLM00D100L0300 | 100 | on request |



## Cooling Condenser - Table No. 21

| Part Numbers | Length (mm) | Hose Connection | Price |
|---|---|---|---|
| BLARCNDRSCD050L350 | 350 | GL 14 | on request |
| BLARCNDRSCD050L450 | 450 | GL 14 | on request |



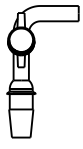
## Rasching Rings - Table No. 22

| Part Numbers | OD X L (mm) | Price/Kg |
|---|---|---|
| BLARFLKCOLRAS00610 | 6 X 10 | on request |
| BLARFLKCOLRAS00810 | 8 X 10 | on request |



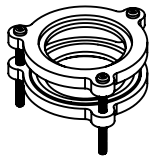
## Gas Vent - Table No. 23

| Part Numbers | Connection Nozzle Size | Price/Kg |
|---|---|---|
| BLARADP0BC1922COCK | 19/22 | on request |
| BLARADP0BC2932COCK | 29/32 | on request |



## CT Clamp - Table No. 24

| Part Numbers | DN | MOC | Price |
|---|---|---|---|
| BLARCTCLMPDN000050 | 50 | SS304 | on request |
| BLARCTCLMPDN000080 | 80 | SS304 | on request |
| BLARCTCLMPDN000100 | 100 | Ss304 | on request |



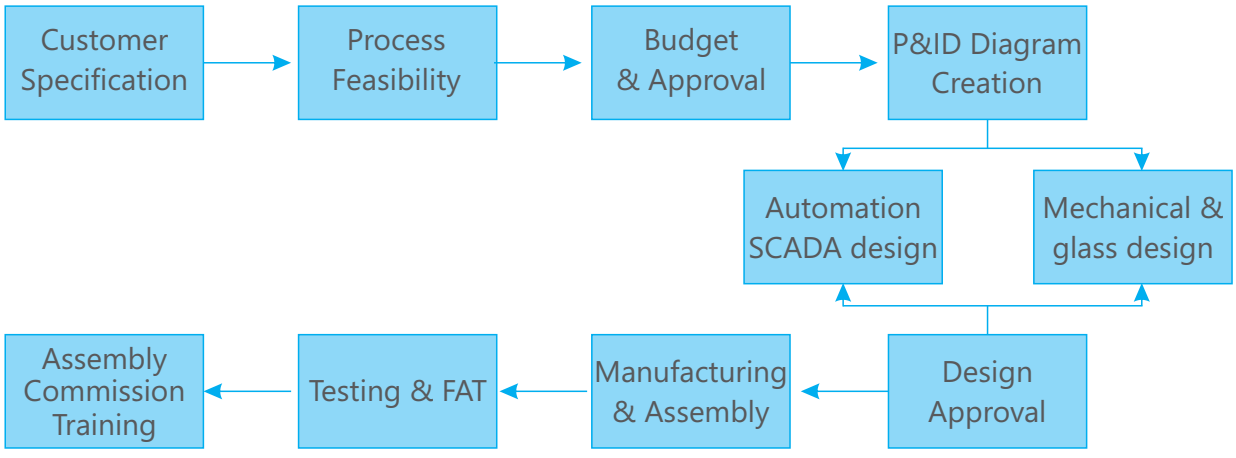
# Turnkey Projects

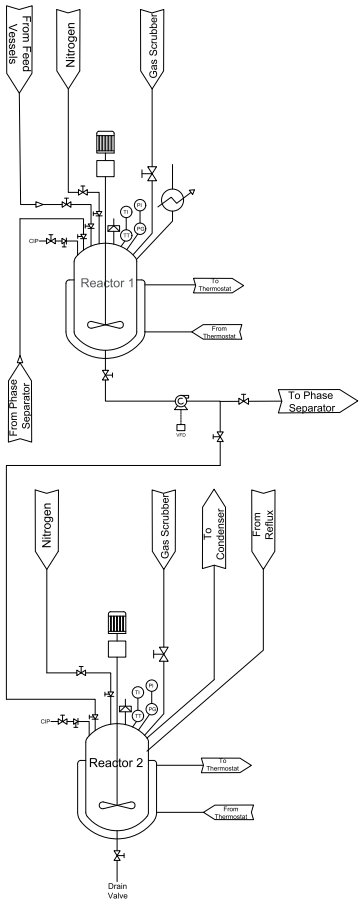
Borosil Process Scienceswith its team of System Integrators, Chemical engineers. Mechanical desongers, PLC designers, and Glass experts os capable to deliver any sort of pilot system from 25L Kilo Lab to 250L pilot plant scale projects.

We engage closely with our customers and EPC to design the systems. We also coordiante and integrate all kinds of utilities and services ranging from heating and cooling and vacuum systems, electrical systems, power backups and essential civil work.

We deal with wide range of industries, including food, pharma, oil, chemical and many more...

## Our process is as follows




## Features :

Pneumatically operated valves

Automatic dosing

Gravimetric dosing

Single point temperature and flow control

Pressure and vacuum stability

## Application :

Vacuum and Reflux Distillation

Azeotropic Distillation ( Phase Seperation)

Evaporation to any desired consitency

Multi component reactions

Reflection / Stripping

Crystallization

Low temperature chemistry

Extraction of multiphase mixture

# Vacuum & Liquid Transfer Pumps - KNF

## Vacuum Pumps

Chemically resistant, compact and oil-free diaphragm vacuum pump with manual speed control for adjusting the pump capacity to your specific application. It features a gas ballast, PTFE/TFM heads, PTFE-coated diaphragms and FFPM valves. Suitable for a wide range of Laboratory applications including extremely aggressive/ corrosive gasses and vapors.




LABOPORT

### Table No. 25

| Part Numbers | Pump Model | Pump Type | Capacity (LPM) | Ultimate Vacuum (mbar) |
|---|---|---|---|---|
| BLAKNF020LPM0N820G | N820G | Standalone | 20 | 6 |
| BLAKNF034LPM0N840G | N840G | Standalone | 34 | 6 |
| BLAKNF021LPM0N920G | N920G | Standalone | 21 | 2 |
| BLAKNF020LPMSH820G | SH820G | Pump system | 20 | 6 |
| BLAKNF034LPMSH840G | SH840G | Pump system | 34 | 6 |
| BLAKNF050LPM0SH950 | SH950 | Pump system | 50 | 2 |
| BLAKNF020LPMSC820G | SC820G | Pump system with digital controller | 20 | 6 |
| BLAKNF034LPMSC840G | SC840G | Pump system with digital controller | 34 | 6 |
| BLAKNF021LPMSC920G | SC920G | Pump system with digital controller | 21 | 2 |
| BLAKNF050LPMSEM950 | SEM950 | Pumps system with digital display and regulation knob | 50 | 2 |

* Prices on request

## Vacuum Controller

Independent control unit for any vacuum source. Features a touchscreen control, pressure sensors, and a two-step controlled valve. Optimizes lab bench space by allowing hands-free operation of the central vacuum unit.




## Laboratory Liquid Transfer Pumps

Liquid transfer pumps is excellent for use with corrosive or neutral liquids. Pump is self priming, maintenance-free and will operate dry indefinitely without damage.
Your lab requires the ability to safely move liquids between containers and vessels. The KNF LIQUIPORT series of liquid transfer pumps provide the solution you need with a variety of available options.



SIMDOS

### Table No. 26

| Part Numbers | Pump Model | Pump Head MOC | Flow Rate | Suction Height | Maximum Pressure |
|---|---|---|---|---|---|
| BLAKNFPTFESIMDOS10 | SIMDOS 10 | PTFE | 1 - 100 ml/min | 3 mWg | 6 bar |
| BLAKNFPTFESIMDOS02 | SIMDOS 02 | PTFE | 30 µl/min–20 ml/min | 2 mWg | 6 bar |
| BLAKNFLIQUIPORT100 | Liquiport 100 | PTFE | 0.2–1.3 l/min | 3 mWg | 1 bar |
| BLAKNFLIQUIPORT110 | Liquiport 1.100 | PTFE | 0.2–1.3 l/min | 3 mWg | 4 bar |
| BLAKNFLIQUIPORT300 | Liquiport 300 | PTFE | 0.5–3.0 l/min | 3 mWg | 1 bar |
| BLAKNFLIQUIPORT130 | Liquiport 1.300 | PTFE | 0.5–3.0 l/min | 3 mWg | 4 bar |

* Prices on request

# Agitator Drive - IKA

Designed to optimize complex stirring applications, IKA® offers the very best in overhead stirrer technology. Our overhead stirrers provide the perfect solution to all of your laboratory stirring and mixing needs, from lower to higher viscosities. IKA® overhead stirrers process stirring quantities up to 200 liters.



RW 20



EUROSTAR 60




MICROSTAR 30

## Table No. 27

| Part Numbers | Model | Speed Range (rpm) | Torque (Ncm) | Max Viscosity (mPas) | Max Stirred Volume (L) | Dimensions W x D x H (mm) | Analog / Digital Interface |
|---|---|---|---|---|---|---|---|
| BLAIKARW2000000000 | RW20 | 2000 | 150 | 10,000 | 20 | 88x212x294 | - |
| BLAIKAEUR060CONTRL | EUROSTAR 60 control | 2000 | 60 | 50,000 | 40 | 86x230x267 | RS232 & USB |
| BLAIKAEUR100CONTRL | EUROSTAR 100 control | 1300 | 100 | 70,000 | 100 | 86x230x267 | RS232 & USB |
| BLAIKAEUR200CONTRL | EUROSTAR 200 control | 2000 | 200 | 100,000 | 100 | 91x209x274 | Rs232 & USB |
| BLAIKAMICRO75DGTAL | MICROSTAR 7.5 digital | 2000 | 7.5 | 4,000 | 5 | 60x126x173 | USB |
| BLAIKAMICRO15DGTAL | MICROSTAR 15 digital | 1000 | 15 | 8,000 | 10 | 60x126x173 | USB |
| BLAIKAMICRO30DGTAL | MICROSTAR 30 digital | 500 | 30 | 20,000 | 20 | 60x126x173 | USB |
| BLAIKAMICRO75CNTRL | MICROSTAR 7.5 Control | 2000 | 7.5 | 4,000 | 5 | 60x136x173 | USB |
| BLAIKAMICRO15CNTRL | MICROSTAR 15 Control | 1000 | 15 | 8,000 | 10 | 60x136x173 | USB |
| BLAIKAMICRO30CNTRL | MICROSTAR 30 Control | 500 | 30 | 20,000 | 20 | 60x136x173 | USB |
| BLAIKAMINI20DIGTAL | MINISTAR 20 digital | 2000 | 20 | 10,000 | 15 | 70x147x193 | USB |
| BLAIKAMINI40DIGTAL | MINISTAR 40 digital | 1000 | 40 | 30,000 | 25 | 70x147x193 | USB |
| BLAIKAMINI80DIGTAL | MINISTAR 80 digital | 500 | 80 | 60,000 | 50 | 70x147x193 | USB |

* Prices on request

# Agitator Drive - Heidolph

Designed to optimize complex stirring applications, IKA® offers the very best in overhead stirrer technology. Our overhead stirrers provide the perfect solution to all of your laboratory stirring and mixing needs, from lower to higher viscosities. IKA® overhead stirrers process stirring quantities up to 200 liters.

FEATURES:

- The uniquely high torque achieves fast and excellent mixing results even when processing highly viscous media
- The speed is kept constant even when there are strong fluctuations in viscosity
- State-of-the-art motors achieve maximum performance at minimum noise level
- Searching for the chuck key is a thing of the past: With the quick-action chuck, the blades can be easily replaced with just one hand – without the need for tools





## Table No. 28

| Part Numbers | Model | Speed Range (rpm) | Torque (Ncm) | Max Viscosity (mPas) | Max Stirred Volume (L) | Dimensions W x D x H (mm) | Analog / Digital Interface |
|---|---|---|---|---|---|---|---|
| BLAHEITORQCORE0000 | Hei-TORQUE Core | 20-2,000 | 40 | 10,000 | 25 | 70x195x282 | - |
| BLAHEITORQEXPRT100 | Hei-TORQUE Expert 100 | 10-2,000 | 200 | 60,000 | 50 | 86x247x340 | - |
| BLAHEITORQEXPRT200 | Hei-TORQUE Expert 200 | 10-2,000 | 200 | 100,000 | 50 | 86x247x340 | - |
| BLAHEITORQEXPRT400 | Hei-TORQUE Expert 400 | 10-400 (stage1) 20-2000 (stage 2) | 400 | 250,000 | 100 | 93x247x340 | - |
| BLAHEITORQULTMT100 | Hei-TORQUE Ultimate 100 | 10-2,000 | 100 | 60,000 | 50 | 86x247x340 | RS232 & USB |
| BLAHEITORQULTMT200 | Hei-TORQUE Ultimate 200 | 10-2,000 | 200 | 100,000 | 50 | 86x247x340 | RS232 & USB |
| BLAHEITORQULTMT400 | Hei-TORQUE Ultimate 400 | 10-400 (stage1) 20-2000 (stage 2) | 400 | 250,000 | 100 | 93x247x340 | Rs232 & USB |

* Prices on request

# Heating & Cooling Circulator - HUBER

Successful working of reactor is depends on the right selection of Heating & Cooling Circulator. The quality of temperature control is highly dependent on the speed at which the jacket temperature can be changed. For best possible heat transfer rates, unistats produce a high delta-T between jacket temperature and reactor contents. Glass reactors are inherently sensitive to pressure (typically the maximum allowable jacket pressure is 0.5 bar) and thermal shock (caused by the temperature difference between the jacket and the reaction mass). Unistats have variable pressure control (VPC) and a delta-T limit to protect against both. In addition, the "process safety" function ensures that the pump and cooling system continue to operate in the event of an over temperature shutdown. This can, for example, prevent overheating of the reactor contents during an exothermic reaction



UNISTAT 510



TANGO



UNISTAT 425

Table No. 29

| Reactor | Part Numbers | Model | Temp Range °C | Pump Max (L/min, bar) | Heating capacity kW | Cooling capacity kW @ 0 °C | Cooling capacity kW @ -40 °C | Pump Fitting | Dimensions W x D x H (mm) |
|---|---|---|---|---|---|---|---|---|---|
| upto 2L | BLAHUBER002MINI230 | Ministat 230 | -40to200 | 22, 0.7 | 1.6 - 2.1 | 0.38 | 0.05 | M16 | 255x450x476 |
| | BLAHUBER002TANGO00 | Tango | -40to250 | 55, 0.9 | 3 | 0.7 | 0.06 | M24 | 426x327x631 |
| | BLAHUBER002UNI0705 | Unistat 705 | -75to250 | 55, 0.9 | 1.5 | 0.65 | 0.6 | M24 | 425x400x720 |
| 5L | BLAHUBER005UNI0405 | Unistat 405 | -45to250 | 55, 0.9 | 3 | 1 | 0.15 | M24 | 426x327x631 |
| | BLAHUBER005UNI0705 | Unistat 705 | -75to250 | 55, 0.9 | 1.5 | 0.65 | 0.6 | M24 | 425x400x720 |
| | BLAHUBER005UNI0815 | Unistat 815 | -85to250 | 40, 0.9 | 2 | 1.5 | 1.4 | M30 | 460x604x1465 |
| 10L | BLAHUBER010UNI0425 | Unistat 425 | -40to250 | 91, 1.5 | 2 | 2.5 | 0.2 | M30 | 460x554x1453 |
| | BLAHUBER010UNI0815 | Unistat 815 | -85to250 | 40, 0.9 | 2 | 1.5 | 1.4 | M30 | 460x604x1465 |
| | BLAHUBER010UNI0825 | Unistat 825 | -85to250 | 40, 0.9 | 3 | 2.2 | 2 | M30 | 460x604x1465 |
| 20L | BLAHUBER020UNI510W | Unistat 510w | -50to250 | 112, 0.9 | 6 | 5.3 | 0.9 | M30 | 460x554x1453 |
| | BLAHUBER020UNI0905 | Unistat 905 | -90to250 | 48, 0.9 | 6 | 3.6 | 3.5 | M30 | 540x654x1500 |
| 30L | BLAHUBER030UNI510W | Unistat 510w | -50to250 | 112, 0.9 | 6 | 5.3 | 0.9 | M30 | 460x554x1453 |
| | BLAHUBER030UNI912W | Unistat 912w | -90to250 | 110, 1.5 | 6 | 7 | 6 | M30 | 630x704x1565 |

* Prices on request

# Chiller

Our Chillers optimized for condenser cooling and are specially designed to work with Borosil range of condensers.

- Temperature range from -10°C to ambient -5 °C.
- Ergonomic and compact design allows the instruments to be on desk at eye-level.
- Large, bright LED display with reliable temperature control.
- Economic and environmental friendly operation.
- Simple operation and navigation menu.



## Table No. 30

| Model | Recirculating chiller CHL 175 | Recirculating chiller CHL 500 | Recirculating chiller CHL 010 |
|---|---|---|---|
| **Part Numbers** | BLFRCHL17500000000 | BLFRCHL50000000000 | BLFRCHL01000000000 |
| Description | Recirculating Chiller, Positive Displacement Pump, -10 to 40°C, 1/4 hp; 240 VAC, 50 Hz | Recirculating Chiller, Positive Displacement Pump, -10 to 40°C, 1/4 hp; 240 VAC, 50 Hz | Recirculating Chiller, Positive Displacement Pump, -10 to 40°C, 1/4 hp; 240 VAC, 50 Hz |
| Reservoir Material | SS304 Tank | SS304 Tank | SS304 Tank |
| Reservoir Capacity (L) | 5L | 7.5L | 10L |
| External Dimensions (mm) | 508X257X596 | 594X327X596 | 594X396X723 |
| Max Temperature (°C) | 40 | 40 | 40 |
| Min Temperature (°C) | -10 | -10 | -10 |
| Cooling Capacity @0°C (watts) | 105 | 300 | 600 |
| Cooling Capacity @10°C (watts) | 140 | 400 | 800 |
| Cooling Capacity @20°C (watts) | 175 | 500 | 1000 |
| Pump Type | Positive displacement | Positive displacement | Positive displacement |
| Pump Power | 60W | 60W | 60W |
| Compressor Horse Power (W) | 155 | 200 | 455 |
| Port Connections -Pipe | 10mm ID | 10mm ID | 10mm ID |
| Power (VAC) | 240 | 240 | 240 |
| Power (Hz) | 50 | 50 | 50 |
| Mobility | Benchtop Model | PU Wheels | PU Wheels |
| Self Diagnostic Functions | Identifies Temp/Probe Errors | Identifies Temp/Probe Errors | Identifies Temp/Probe Errors |

* Prices on request

# TECHNICAL INFORMATION

**BOROSIL** LOW EXPANSION BOROSILICATE GLASS:
From the 16th century to the present day, chemical research teams have been using glass containers for a very simple reason. As the glass container is transparent, the contents and the reaction are clearly visible. However, since chemists need to heat, cool and mix chemical substances, ordinary glass is not always appropriate for laboratory work.

Laboratory work requires apparatus made of glass that can readily be moulded into any desired shape or form. It requires glass that offers maximum inertness when in contact with the widest range of chemical substances. The glass should have the capability to withstand thermal shock without fracture, and it should facilitate high temperature work without deforming. It should be resilient enough to survive the everyday knocks to which it will be subjected in normal laboratory handling, washing and sterilising processes.

**BOROSIL** is the trade name of such a glass.

The products represent optimum mechanical, thermal and chemical behaviour. This glass is used in laboratories as well as for industrial applications, where thermal shock resistance, mechanical resistance as well as unusual chemical resistance are required.

## CHEMICAL COMPOSITION OF GLASS

Borosil glass is a 3.3 Type I low alkali borosilicate glass. It is virtually free from the Magnesia-Lime-Zinc group, and is also completely free of arsenic and other heavy metals.
Its **typical chemical composition** is given below.

| Content | Approx % by weight |
|---|---|
| $SiO_2$ | 81 |
| $B_2O_3$ | 13 |
| $Na_2O$ / $K_2O$ | 4 |
| $Al_2O3$ | 2 |

## THERMAL PROPERTIES

Borosil glass has a low co-efficient of thermal expansion. Consequently, the thermal stresses under a given temperature gradient are also low. The glass can withstand higher temperature gradients and also sudden temperature changes / thermal shocks. Minute scratching of the glass surface can, however, reduce its thermal resistance.
'Strain Point' should be regarded as the maximum safe operating temperature for Borosil glassware. When heated above 500°C, the glass may acquire permanent stresses on cooling.

All Borosil laboratoryware is annealed in a modern Lehr, under strictly controlled conditions to ensure minimal residual stresses in the products.

The **typical thermal properties** of Borosil glassware are mentioned below

| Coefficient of Linear Expansion | 2.5 x$10^{-7}$cm / cm / °C |
|---|---|
| Strain Point | 515°C |
| Annealing Point | 565°C |
| Softening Point | 820°C |
| Specific Heat | 0.2 |
| Thermal Conductivity (Cal / $cm^3$ / °C / sec) | 0.0027 |

## CHEMICALPROPERTIES

BOROSIL 3.3 Glass is highly resistant to water, neutral and acid solutions, concentrated acids and acid mixtures, and to chorine, bromine, iodine and organic substances. The chemical resistance of this glass is superior to that of most metals and other materials, even when exposed to long processing periods and temperatures above 100 °C. A slight release of mainly monovalent ions takes place after exposure of the glass to water or acids. A very thin layer of impervious silica gel is subsequently formed on the surface of the glass, which in turn slows clown further attack. At higher temperatures and in more concentrated forms the glass surface is subject to increased attack by hydrofluoric acid, hot phosphoric acid and alkaline solutions.

| Hydrolytic Class (ISO 719) | HGB 1 |
|---|---|
| Acid Class (DIN 12 116) | S1 |
| Alkali Class (ISO 695) | A 2 |

| A GUIDE ON GLASS BREAKAGE AND RECOMMENDED SOLUTIONS | | |
|---|---|---|
| **Type of breakage** | **Causes of glass breakage** | **Solution** |
| Breakage during heating procedures | Drying up of vessel during heating due to evaporation | Do not leave the vessel unattended during heating procedure |
| | Use of excessive heat throughout the experiment | Decrease the tempertaure as the liquid level drops |
| | Use of point source heating | Solution |
| | | Use a large but soft flame for heating |
| | Heating of the vessel above the liquid level | "Ensure that the flame is in contact with the vessel below the liquid level" |
| | Uneven heating the vessel over electric heaters and hot plates; use of an under sized hot plate | "Always ensure that the surface of the hot plate is larger in area than the base of the vessel being heated." |

| A GUIDE ON GLASS BREAKAGE AND RECOMMENDED SOLUTIONS | | |
|---|---|---|
| **Type of breakage** | **Causes of glass breakage** | **Solution** |
| Breakage during cooling procedures | Placing the hot vessel on cold surface/ filling up a hot vessel with cold liquids | Allow the vessel to cool before placing or filling it up on/ with cold surfaces/substances |
| Breakage due to scratches and abrasions inside the vessel | Use of incorrect anti-bumping device, such as broken procelain with sharp edges that causes internal abrasions and reduces mechanical strength of the glass | Always use anti-bumping devices in the vessel, such as powdered pumice or glass wool |
| | Use of improper stirring device that causes internal abrasions and reduces mechanical strength of the glass | Always use a teflon sleeve or a similar device on stirring rods, to prevent scratching of the inside of the vessel |
| | | When using a glass vessel with a magnetic stirrer, always use a covered follower. This prevents abrasion of the walls from inside of the vessel |
| Breakage of the base of the glass container | Placing the hot vessel on cold surface/ filling up a hot vessel with cold liquids | Allow the vessel to cool before placing or filling it up on/ with cold surfaces/substances |
| | Use of a glass or metal mechanical stirrer in a glass vessel | Always pre-determine the height of the stirrer before use, to ensure that the stirrer blade does not come in contact with the base or sides of the vessel |
| | Addition of the antibumping device froma height in the glass vessel | |
| | Addition of water to acid in a glass vessel which generates sudden heat and leads to breakage | Always ensure to add water first in the glass container followed by slow addition of acid |
| Breakage due to vacuum/ pressure | Application of sudden pressure changes | Apply and release positive or negative pressures gradually. |
| | Use of pressure beyond the limit | Refer manufacturers instructions carefully before applying pressure/ vaccum to the glass vessel |
| Breakage of stopcocks and joints | Stopcocks stuck hardly on burettes and funnels | When not in use insert a thin strip of paper between the joint surfaces to prevent them from sticking |
| | | Mechanical separation of the joint by carefully rocking the Cone in the socket, or gentle tapping the socket flange on a wooden surface, or by heating the socket and not the Cone in a localised flame |
| | | Use of penetrating oil |
| | | Frequent lubrication to prevent the stopcock and joints from sticking |
| | | When using lubricants, it is advisable to apply a light coat of grease all around the upper part of the joint. Use only a small amount, and avoid greasing the part of the joint that comes in contact with the inside of the apparatus.<br>Three types of lubricants are commonly used on standard taper joints.<br>(a) Hydrocarbon grease is the most widely used. It can be removed easily by most laboratory solvents, including acetone.<br>(b) As hydrocarbon grease is easy to remove, silicon grease is usually preferred for higher temperature or high vacuum applications. It can be removed with chloroform easily.<br>(c) For long-term reflux or extraction reactions, a watersoluble, organic and insoluble grease such as glycerin, is suitable. Glycerin can be removed by means of water |
| Breakage during inserting glass tubing into rubber bung | Improper lubrication | Use water, oil or glycerol on both, the tubing as well as the rubber bung |
| | Presence of rough ends | Always fire-polish the rough ends of the glass tubing before attempting to insert it into flexible tubing |

# CLEANING OF GLASSWARE

Use of clean glassware is crucial for efficacy and efficiency of chemical reactions or biological processes. It is the key to success of any experiment. Use of dirty glass ware can lead to cross contamination of chemicals thereby leading to erroneous results. Cleaning of glassware should be an integral part of the good laboratory practices and should be followed by each member of the lab after each use.

## DID YOU KNOW ?

New glassware is slightly alkaline in reaction. Hence, it should be soaked for about 2 to 3 hours in acidic water (1% solution of hydrochloric acid or nitric acid). Rinse with water and then soak the empty glassware in a basin / tub containing suitable cleaning agent / solution for 20 to 30 minutes.



### Cleaning agents :

- Water/Purified water/warm water – Routine cleaning of all glassware
- Soaps/ detergent solution - Routine cleaning of all glassware
- Cleaning powders with/without abrasives – For exceptionally dirty glassware
- Acetone/Solvents - Glassware with greasy, sticky, waxy materials and glassware containing water immiscible solvents
- Hot nitric acid – glassware containing cloudy precipitates and coagulated organic matter, glassware required for TOC analysis

**NOTE** : After use of any of the cleaning agents, other than water, glassware should be rinsed and cleaned with water as per the standard laboratory procedure

## DO'S AND DON'TS OF CLEANING

| DO'S | DON'T'S |
|---|---|
| Remove the content of glassware before washing | Do not use a metallic scrubber or a brush with metallic bristles for cleaning |
| Remove all markings / sticker labels from the glassware. | Do not use strong alkalis for cleaning |
| Bring glassware to ambient temperature before cleaning, if they are subjected to heating or cooling during analysis | Do not use chromic acid and sulphuric acid mixture for cleaning as it is hazardous and toxic in nature |
| Use a suitable cleaning agent depending upon the type of dirt | |
| Soak the glassware in the cleaning agent for about half an hour before cleaning | |
| Use a good quality brush for cleaning | |
| After applying the cleaning agents always rinse the glassware first with tap water and finally with purified water | |
| Recommended temperature for drying of glassware is $60^0$C - $100^0$C | |

## Pipette Cleaning

- Dip the pipettes with their tips down, in a cylinder or tall jar of water, immediately after use.
- Do not drop them into the jar as this may break or chip the tips and render them useless.
- A pad of cotton or glass wool at the base of the jar will help to prevent breaking of the tips.
- Please ensure that the water level is high enough to immerse the greater portion of all or each of the Pipettes.
- Then drain the Pipettes and transfer them into a cylinder or jar containing any suitable cleaning agent or any suitable detergent solution.
- Allow it to soak in a jar or cylinder for about half an hour.
- Drain the pipette and run tab water over and through them until all contents are removed.
- Soak the Pipettes in purified water for at least one hour.
- Remove them and dry the external surface with a cloth, shake out the water and dry in oven.
- After drying, place the Pipettes in a dust-free drawer.
- For sterile applications, wrap serological and bacteriological Pipettes in an autoclavable bag and autoclave at 121$^0$C for 30 mins or place them in
- Pipette cans and sterilise them in the dry air steriliser at 160°C for two hours.
- A Pipette used for transferring infectious material should have a plug of cotton placed in its mouth end before sterilising

## Burette Cleaning

- Remove stopcock key before cleaning and wash the stopcock key separately
- Wash the burette with suitable cleaning agent or any other suitable detergent solution
- Rinse with tap water until all the dirt is removed. Then rinse with purified water.
- Keep the cleaned burette in inverted position until dry.
- Open the stopcock and keep for drying.
- Before the stopcock key is replaced in the burette, lubricate the joint with a small amount of lubricant.
- Always cover tip of burettes with butter paper or aluminium foil, when not in use.

Note: **The bureette stopcock keys and glass stop cocks are not interchangeable**, hence, glass key and burette bore should be marked properly to avoid mix-ups

## Culture Tubes

- Culture tubes which have been used previously must be sterilized before cleaning. The best general method for sterilising culture tubes is by autoclaving for 30 minutes at 121$^0$C (15 lb pressure). Media which solidify on cooling should be poured out while the tubes are hot.
- After the tubes are emptied, brush them with a suitable cleaning agent.
- Rinse thoroughly with tap water, rinse with purified water, shake out the water and dry in oven.
- After cleaning before the next use, the culture tubes need to be sterilized again.
- The culture tubes and culture medium can be sterilized together in one cycle or can be sterilized separately.
- In the latter case, the sterile medium can be filled in the sterile culture tubes aseptically.

## Serological Tubes

- Serological Tubes should be chemically clean but need not be sterile. However, specimens of blood which are to be kept for some time at room temperature should be collected in a sterile container. It may be expedient to sterilize all tubes as routine.
- To clean and sterilize tubes containing blood, discard the clots in a waste container and place the tubes in a large basket.
- Put the basket with others, in a large bucket or boiler. Cover with water, add a fair quantity of soft soap or suitable cleaning agent and boil for 30 minutes. Rinse the tubes and clean with brush, rinse and dry with the usual precautions.

Note: It is imperative when washing serological glassware that all acid, alkali and detergent be completely removed. Both acid and alkali in small amounts destroy complement and in larger amounts produce haemolysis. Detergents interfere with serologic reactions.
Serological tubes and glassware should be kept separate from all other glassware and used for nothing except serologic procedures.

# Microscope Slides

## Cleaning of New slides

- Put a drop of cleaning solution of the slide. This can be a detergent solution or diluted alcohol solution
- Apply the cleaning solution uniformly on both the sides of slide and clean the surface carefully with your fingers or using a lint-free microfibre towel
- Rinse thoroughly under running tap water until the cleaning solution is completely washed out
- Ideally a thoroughly cleaned slide should hold a layer of water uniformly over its surface. This indicates that the slide is cleaned properly. If the water layer is formed over the surface in blotches, repeat the cleaning
- After cleaning is done dry slide using a paper towel/ microfibre towel.
- Allow the slides to air dry for some time before using

## Cleaning Used slides

- Place the used slide in a container full of warm water and detergent
- Leave the slide in this for at least ٥-٤ hours
- Clean the slide using a gauze by rubbing both the sides until they are free of the dirt, stains, oil, etc.
- Rinse thoroughly under running tap water until the cleaning solution is completely washed out
- Ideally a thoroughly cleaned slide should hold a layer of water uniformly over its surface. This indicates that the slide is cleaned properly. If the water layer is formed over the surface in blotches, repeat the cleaning
- After cleaning is done dry slide using a paper towel/ microfibre towel
- Allow the slides to air dry for some time before using

**Recalibration of volumetric glassware**

**Abstract: ASTM Standard E 452-01, Clause 4.2**

3.3 low expansion borosilicate volumetric glassware will hold its calibration indefinitely provided that it is not exposed to hydrofluoric acid, phosphoric acid, or strong, hot alkalis, and that it is not heated above 150°C when dry. A frosting of the glass surface (when viewed dry) indicates that chemical attack has occurred and recalibration may be in order. As a precaution, however, it is recommended that the glassware be recalibrated after 10 years of service regardless of its appearance.

# AUTOCLAVING OF GLASSWARE

Autoclaves are widely used to sterilise instruments, glassware and plasticware, solutions and media, and to decontaminate biological wastes. Due to the physical hazards (e.g. heat, steam and pressure) associated with autoclaving, extra care must be taken to use them safely. Each autoclave has unique characteristics and operating requirements. Please review and understand the owner's manual before using any autoclave for the first time, and every time thereafter. Also, please follow all the safety regulations for autoclaving, laid down by your institution.

## Autoclaving empty glassware

1. Place individual glassware vessels within a heat resistant plastic or metal tray on a shelf or rack.
2. Never place them directly on the autoclave base or floor
3. Always maintain space (>5 cm) between glass vessels to give them room to expand while heating, and to prevent them from hitting other vessels when entering or leaving the autoclave
4. Add water rising up to 1/4 to 1/2 inch in the tray, so that the glassware will heat more evenly
5. Large heavy glassware, such as 3L or larger spinner flasks 5L or larger bottles and carboys should have a small amount of distilled water placed inside them to help generate steam when they are being sterilised dry in an autoclave

## Autoclaving glassware containing liquids

Never autoclave items containing corrosives (e.g. acids, bases, phenol), solvents or volatiles (e.g. ethanol, methanol, chloroform) or radioactive materials.

1. Fill the glassware only half full with the liquids to be sterilised.
2. Take into consideration, the volume of liquid to be autoclaved.
   For e.g. : 2-litre flask containing 1 litre of liquid takes much longer to sterilise than four 500 ml flasks, each containing 250 ml of liquid
3. Do a test run when autoclaving larger volumes of liquid, to make sure that the liquid has reached 121ºC
4. Always use the slow exhaust or liquid cool cycle when autoclaving liquids, to prevent the liquid from boiling over, causing loss of the contents
5. Suspend an autoclave thermometer with a thin wire, in the middle of the liquid-filled container to record the highest temperature reached. Then, check its reading after the autoclave run is complete. If the temperature is too low, then the run-time will need to be increased or the volume will need to be reduce
6. To prevent bottles from getting shattered during pressurisation, the caps of the vessels with liquids must be loosened completely before loading

## Safety during Autoclaving

*Always follow the safety precautions to protect yourself and the equipment being used.*




1. Be sure to wear the correct PPE including a lab coat, eye protection, closed-toe shoes, and heat-resistant gloves
2. Remember that after usage, glassware will be hot and can cause serious injury if the correct precautionary measures aren't taken
3. Always wait for the pressure gauge to drop to zero with zero time remaining before you open the door
4. Stand behind the door as you open it and allow all the steam to fully escape before reaching into the autoclave
5. Let glassware fully cool before touching them

| DO'S | DON'T'S |
|---|---|
| Wait for 5 minutes before removing dry glassware from the autoclave, and wait for 10 to 20 minutes before removing glassware containing liquids | Do not tighten caps on the vessels immediately after autoclaving<br>The cap or the vessel may get shattered due to the vacuum resulting from the cooling of the steam in the vessel |
| For non-liquid loads, please allow the glassware to cool for 15 minutes before touching it<br>For liquid loads, please allow the liquid to stand for a full hour before touching the glassware | Do not put hot glassware, especially large bottles, from an autoclave (or any other heat source) on to a cold bench top. The stress that is induced will often cause the base of the vessel to crack or fall off, releasing its hot contents |

# PERSONAL SAFETY

- Use tongs or asbestos gloves to remove any glassware from heat. Hot glass can cause severe burns.
- Protective gloves, safety shoes, aprons and gogglesshould be worn to safeguard against chemical accidents, spilling or splattering.
- Always flush the outside of the acid bottle with water before opening it. Do not place the stopper on the counter top, where someone else may come in contact with acid residue.
- Care should be taken when handling mercury. Even a miniscule amount of mercury in the base of a drawer can poison the atmosphere in an entire room. Mercury toxicity is cumulative and the element's ability to amalgamate with a number of metals is well known. Following any accident involving mercury, the area should be checked thoroughly to ensure that there are no globules remaining. All mercury containers should be kept well stoppered.
- Never drink from a beaker. A beaker intended specifically for the use of drinking is a hazard in the laboratory. Do not taste chemicals to identify them. Smell chemicals only when necessary, and only by wafting a small amount of vapour towards the nose.
- Avoid using a Pipette with the mouth, particularly when using concentrated acids, alkalis or potentially biohazardous materials. Use mechanical means, such as a rubber bulb or an automatic dispenser.
- Do not fill the receptacle with any material other than that mentioned on the label. Label all containers before filling. Discard the contents of any unlabelled containers.
- To prevent breakage when clamping glassware, do not permit glass-to-metal contact, and do not use excessive force to tighten the clamps.
- Do not look down into a Test Tube being heated or containing chemicals, and do not point its open end at another person. A reaction could cause the contents to be ejected suddenly, resulting in injury.
- Splattering from acids, caustic materials and strong oxidising solutions on the skin or clothing should be washed off Immediately with large quantities of water.
- When working with chlorine, hydrogen sulphide, carbon monoxide, hydrogen cyanide and other highly toxic substances, always use a protective mask. Alternatively, perform these experiments under a fume hood in a well ventilated area.
- In working with volatile materials, please keep in mind that heat causes expansion and confinement of such expansion results in explosion. Also remember that this danger exists even if external heat is not applied.
- Perchloric acid is particularly dangerous as it explodes when brought in contact with organic materials. Do not use perchloric acid around wooden benches or tables.
- Keep perchloric acid bottles on glass or ceramic trays with capacity that is adequate to hold all the acid in case the bottle breaks.
- When using perchloric acid, always wear protective clothing.
- When using hot plates and other electrical equipment,always ensure that the wire and plugs are in good condition. Do not handle an electrical connection with damp hands

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NOTES

BOROSIL®

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1 ATOMIC NUMBER
H SYMBOL
HYDROGEN NAME
1.008 CONVENTIONAL ATOMIC WEIGHT
[1.0078 , 1.0082] STANDARD ATOMIC WEIGHT

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### Did you know?

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