

pricelist 2016 - 17

Effective from 1st April 2016

fifty three years of trust



Manufacturers of Laboratory Glassware
From 3.3 Low Expansion Borosilicate Glass

MISSION & VISION

Our mission is to emerge as a preferred vendor for laboratory glassware in the domestic as well as international markets. We would also develop a complimentary range of laboratory consumables in our product portfolio.

While in this wonderful journey we want to enhance our marketing capabilities, continuously improve our quality and services, invest in our people, yield profits for our stake holders and be socially responsible.



Message from the Managing Director's Desk

Shreevar Kheruka
Managing Director

Dear Customers,

Warm greetings for the new financial year. It is always my great pleasure to present to you our Pricelist, which becomes effective from 1st April, 2016.

Continuing our theme of customer centricity at Borosil, I am pleased to announce a series of improvements we have done in our manufacturing processes as well as IT systems that will further reduce procurement lead times for our customers. With our new production hub at Tarapur, Maharashtra we can cater to various customized product requirements with a quick turnaround time. Increase of capacity and automation in material handling means a higher throughput and enhanced quality. Finally, by implementing MRP in SAP, we are able to be a 'smarter' organization and will have more stock available off the shelf for YOU, our customer!

In addition to our off the shelf delivery promise, we also closely watch developments in your industries and keep evolving our product range to meet these needs. This year, we are pleased to launch a series of high quality instruments that are required by every lab. In addition to the quality and functionality promise that is inherent in the Borosil brand name, these instruments have been designed to look aesthetically pleasing. Our desire is that they perform and look beautiful at the same time. This range of instruments can be found on page 261-270 of this catalogue.

Our credibility is our most important asset. Our brand stands for high performance and guaranteed customer satisfaction. For this reason, we continue to demand the highest quality from our product as well as our people. Our entire team is committed to work with you to ensure that you are 100% satisfied with our value addition.

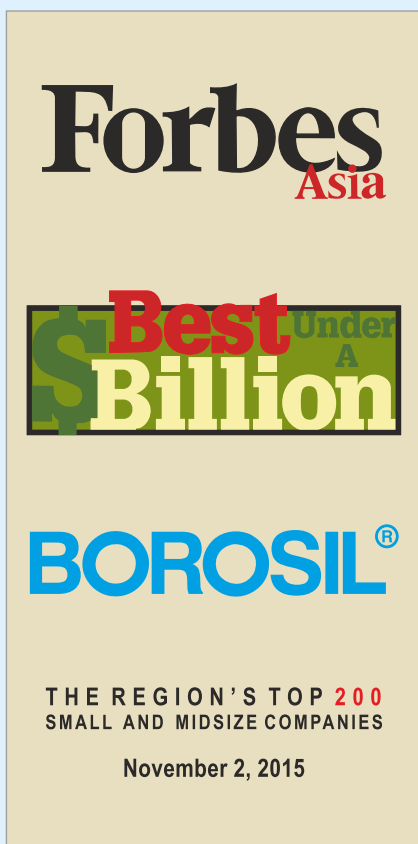
We want you to be in touch with us. Please drop me a line at shreevar.kheruka@borosil.com to share your feedback with me or just to simply say hello!

I take this opportunity to wish all of you the very best for the year ahead.

Best regards,
Shreevar Kheruka

Corporate Office :
1101, Crescenzo, G - Block, Opp. MCA Club,
Bandra Kurla Complex, Bandra (E),
Mumbai - 400 051, India

Phone : +91-22-6740 6300
Website : www.borosil.com



Borosil Glass Works Ltd.

an ISO 9001: 2008 certified company



Borosil Glass Works Ltd.

Quality Policy

“We, at Borosil Glass Works Limited, are committed to understanding Our customers’ needs and fulfilling the same on time everytime.

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 customer satisfaction through improvements in quality of our products & services.

This will be achieved by our total commitment:

- Communication with our customers’ to understand their needs
- Continuously updating of our technical competence, systems and processes
- Enhancing the expertise of our people by periodic training & reviews”

Date : 01.04.2015

Shreevar Kheruka
Managing Director

Welcome to Borosil

*State of the art
manufacturing facility at Bharuch*



Corporate Profile

The Borosil Group comprises two independent companies – Borosil Glass Works Ltd. and Gujarat Borosil Ltd.

Borosil Glass Works Ltd. (BGWL) 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.



Scientific and Industrial Products (SIP) Division

Borosil's SIP division offers an entire gamut of the finest quality scientific and laboratory equipment through a pan India network of 150 dealers. This includes laboratory glassware, instruments, disposable plastics, liquid handling systems and explosion-proof lighting glassware. 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 53 years, 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 Products Division

Borosil's consumer products division offers microwavable and flameproof kitchenware and iconic Vision glass tumblers through over 10,000 retail outlets, establishing Borosil Glass Works Ltd. (BGWL) as India's market leader in microwavable and flameproof kitchenware. Owing to the elegance, dependability, safety and ease of use of these products, Borosil has become synonymous with microwavable glassware in Indian homes. It continues to maintain its stronghold as one of India's best known and most trusted brands for over 5 decades. Borosil International's range of stylish heat resistant glassware is loved and preferred by homemakers.

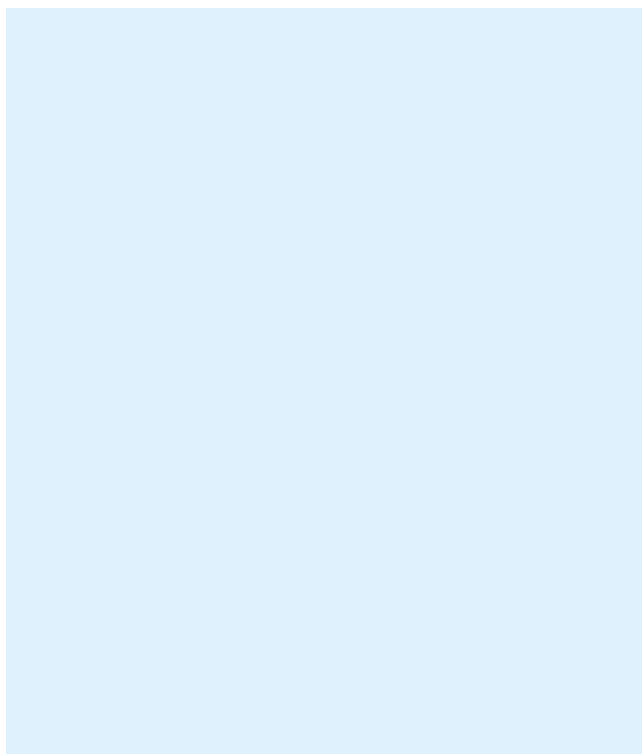
Providing complete solutions, Borosil's Consumer products fulfil all cooking, serving and dining needs. Research studies reveal that customers associate Borosil with several positive attributes including quality, style and performance. To cater to changing lifestyle needs and aspirations, we have introduced a range of smart, practical and elegant Small Appliances, backed with Borosil's guarantee. These include Mixer Grinders, Induction cooktops, Oven Toaster Grillers, Toasters and Rice Cookers.

Borosil Glass Works has recently acquired Hopewell Tableware Pvt Ltd. Hopewell produces a range of fine Opal glass dinnerware under the brand 'Larah'. Larah products are a beautiful blend of elegance and performance, and are synonymous with Borosil's quest for perfection and excellence for over 50 years. Borosil has lent its expertise in glassware to this category making the products stronger and chip resistant. Contemporary designs, a plethora of sizes and colors coupled with the durability and toughness of the Opal glass result in this immaculately designed product with impeccable finish, to give the perfect dining experience.



Gujarat Borosil Ltd.

Over 50 years of expertise in producing specialty glass including rolled glass makes Gujarat Borosil Limited an invaluable member of the Borosil group. Its state-of-the-art facility with production capability of 180 MT/day manufactures low iron high-transmission textured solar Glass for solar photovoltaic, solar thermal applications, and extra clear patterned glass for diverse architectural applications. GBL is the only manufacturer of solar glass in India. The entire production line has been imported from world leaders of glass equipment in West Europe, making GBL's solar Glass the most technically advanced in the world. Long term performance durability, high hydrolytic resistance and outstanding performance durability of its anti-reflective coating make this glass truly superior. Moreover, GBL's solar Glass has the lowest iron in the world and has been certified with glass efficiency value of 0,952 from SPF Switzerland, ranking higher than other glasses tested. Pioneering the world, we are the only company to create solar Glass without adding highly toxic substance antimony in the glass composition. Engineered primarily for the sun, GBL's solar Glass delivers maximum power output in the field.



foreword

Borosil Glass Works Ltd. 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, 2016**.

These supersede all previous prices. All prices stated herein are the recommended maximum price per piece in INR, and are **exclusive of Value Added Tax or Local Sales Tax, Central Sales Tax**, any delivery charges, octroi and other statutory and non-statutory levies. The dealers are at liberty to charge prices lower than those stipulated herein.

special or non-standard 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 Glass Works Ltd.

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.

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** glasswares 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 highest level of precision, carefully controlled gradual heating and cooling procedures are essential

petri dish manufacturing facility



the next level of production

manufacturing facility at Tarapur

NEW



advanced printing technology

NEW



- High definition printing for accurate and easy reading

automated vial forming machine

NEW



our warehouses

Six warehouses with floor area more than 1,50,000 Sq. feet PAN india



17,000 sq feet new warehouse
at MM Nagar, Chennai



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:

1. **Accuracy:** Please see 'Calibration Process' for a detailed understanding of how Borosil Volumetric Glassware is the most accurate in the world.
2. **Mechanical Strength:** All Borosil laboratory glassware products are annealed in a special chamber wherein the stress developed during the manufacturing process is eliminated with a controlled heating and cooling process. Moreover, Borosil's production processes ensure uniform wall thickness across all products, thereby enhancing their mechanical strength.
3. **Thermal Shock Resistance:** The annealing process further ensures that Borosil products are free of residual stress. The uniform wall thickness of Borosil products prevents damage owing to repeated heating and cooling in laboratories.
4. **Chemical Durability:** All Borosil laboratory glassware products are manufactured using 3.3 low expansion ASTM E-438 Type 1 Class A borosilicate glass. This glassware, by nature, is resistant to attack from acids, salt solutions and organic solvents.

calibration process



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 $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

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.





NABL accredited laboratory

Our NABL-accredited laboratory for calibration and testing of Glass Volumetric products including Burettes, Cylinders, Volumetric Flasks and Pipettes (both Graduated and Volumetric), is now operational.

In this catalogue, we present the complete range of Borosil products that are available with a Calibration Certificate issued by the NABL-accredited laboratory.

In certain critical areas, it is mandatory that representative samples of Volumetric products used by the laboratories be sent to NABL-accredited laboratories for testing of the calibration.

With the establishment of our own facility, our customers can now get the products certified by our laboratory directly, without sending them to other laboratories, saving a considerable amount of time and cost.



certification

ISO certificate



Individual calibration certificate



- Developed with today's complex marketplace in mind, ISO 9001:2008 provides an integrated approach to quality management – putting quality at the heart of business.
- ISO 9001 is a quality management system, implementing a systematic and process driven approach to managing our business.
- A Quality Management System is what ensures a business' products or services meets a certain level of quality; that is, they are reliable, safe, consistent, meet customer expectations, continuously improve and comply with the law.

**Individual Calibration Certificate
is available on our website**



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.





Beakers

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Burettes

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Cones

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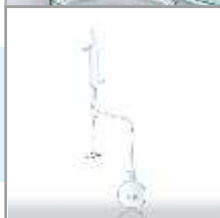
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Microscope slides & Cover Glass

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Liquid Handling Systems

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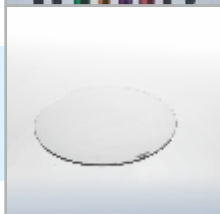
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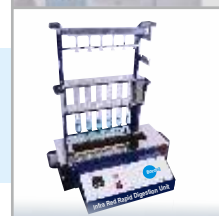
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Apparatus

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Water Distillation Unit

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Chromatography Vials

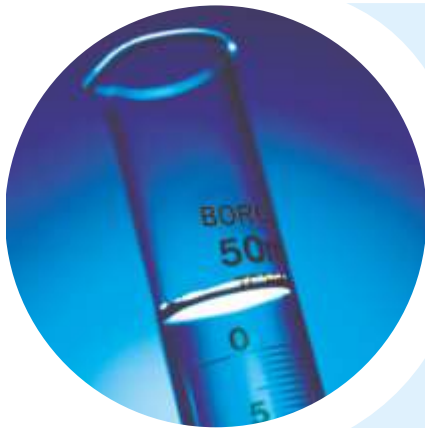
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LabQuest

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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 lasts longer



“for Labs where
compliance matters”



Accuracy
Mechanical Strength
Thermal Shock Resistance
Chemical Durability



Available in
Individual & Batch
Certificate

Laboratory Glassware

part

1

Laboratory Glassware



Made from
3.3 Expansion
Borosilicate Glass



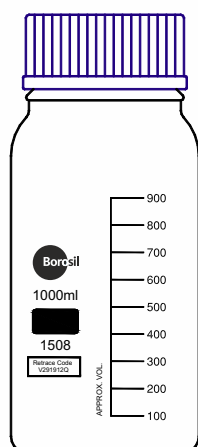
State-of-the-art
Calibration facility
in compliance
with ISO 17025

1 part | Laboratory Glassware



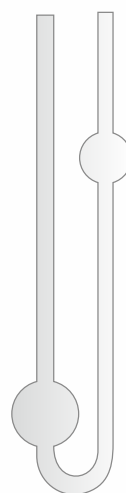
Our product range just got bigger

1508 - Bottles, Reagent, Wide Mouth



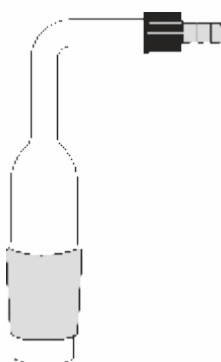
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Lab Accessories



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Beaker



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 Glassware are best-in-class product with several advantages. It has 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 result 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 applications.

1000 - Beakers, Griffin, Low Form , with spout

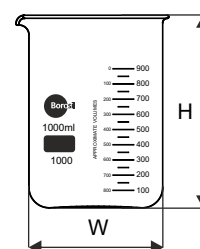
- Complies with IS 2619 / ISO 3819 and DIN 12331
- The spout design enables clean and precise pouring
- Uniform wall thickness distribution makes it ideal for heating liquids
- The easy-to-read scale and large labelling field make marking easier
- High resistance to chemical attack
- Double graduation metric scale for convenience

Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
1000005	5*	22 x 30	20	95.00
1000006	10*	26 x 35	20	97.00
1000009	25	34 x 50	60	99.00
1000D12	50	42 x 60	60	65.00
1000D16	100	50 x 70	40	69.00
1000D18	150	60 x 80	40	69.00
1000D21	250	70 x 95	40	72.00
1000D23	400	80 x 110	40	120.00
1000D24	500**	83 x 115	40	116.00
1000D25	600	90 x 125	40	150.00
1000028	800	100 x 135	20	240.00
1000D29	1000	105 x 145	20	240.00
1000D30	2000	130 x 185	6	470.00
1000D31	3000	150 x 210	4	1230.00
1000D33	5000	170 x 270	4	1815.00
1000D38	10000**	220 x 350	1	5650.00

25ml to 10000ml Graduated.

* 5 ml and 10 ml Beakers are not graduated.

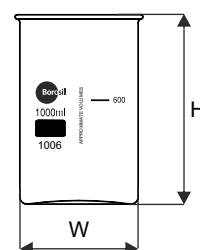
**500 & 10000 ml not covered in IS, ISO and DIN standards.

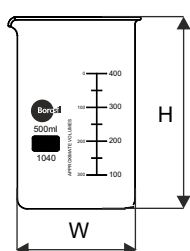


1006 - Beaker, Tablet Disintegration

- It has a large labelling field that enables easy marking
- Specially designed for Tablet disintegration machine

Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
1006029	1000	105 x 145	10	310.00



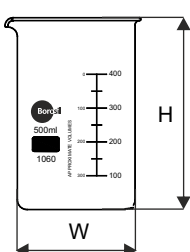


1040 - Beakers, Tall form, Without Spout

- Complies with IS 2619 / ISO 3819 and DIN 12331
- Graduated to indicate the approximate content
- The easy-to-read scale and large labelling field make marking easier
- Uniform wall thickness distribution makes it ideal for heating liquids
- This beaker is designed without a pouring spout

Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
1040012	50	38 x 70	40	114.00
1040016	100	48 x 80	40	120.00
NEW 1040018	150	54 x 95	40	130.00
1040021	250	60 x 120	40	120.00
1040024	500*	77 x 137	20	166.00
NEW 1040025	600	80 x 150	20	225.00
NEW 1040028	800	90 x 175	20	275.00
1040029	1000	95 x 180	20	332.00

* 500 ml not covered in IS, ISO and DIN.



1060 - Beakers, Tall Form, With Spout

- Complies with IS 2619 / ISO 3819 and DIN 12331
- Uniform wall thickness distribution makes it ideal for heating liquids
- Graduated to indicate the approximate content
- All sizes are equipped with a durable matt-finished enameled space for marking
- This Beaker is designed with a pouring spout

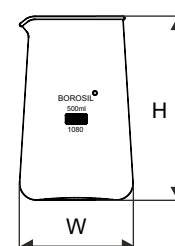
Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
1060012	50	38 x 70	40	120.00
1060D16	100	48 x 80	40	120.00
NEW 1060018	150	54 X 95	40	130.00
1060D21	250	60 x 120	40	126.00
1060D24	500*	77 x 137	20	166.00
NEW 1060025	600	80 x 150	20	225.00
NEW 1060028	800	90 x 175	20	275.00
1060D29	1000	95 x 180	20	337.00

* 500 ml not covered in IS, ISO and DIN.

1080 - Beakers, Philips (Conical) with Spout

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

Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
1080021	250	68 x 110	40	542.00
1080024	500	88 x 145	40	678.00



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

Description	Size Inches	Caselot
Beaker tong	10	6
Beaker tong	12	6
Flask tong	10	6



Bottles



Bottles have multiple uses. As the Aspirator, Reagent and Solution Bottles are not used for direct heating purposes, they are designed with heavier wall thickness, making them mechanically stronger to withstand wet or dry sterilisation. The high chemical durability of the glass ensures that most reagents can be stored in these bottles for long durations in almost the same condition. Plain Neck Solution Bottles are designed to have a uniform rubber stopper fit. Roux Bottles and Milk Dilution Bottles have flat surfaces and are widely used for culture growth.

The outstanding **Borosil®** quality provides capabilities for a wider range of functions, from long-term storage to the most demanding applications in the pharmaceutical industry.

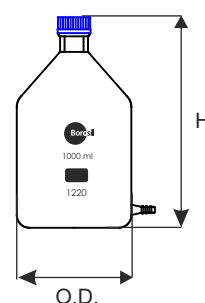
1220 - Bottle, Aspirator, with GL 45 Cap and tubulation

- Complies with IS 1388 (Part III), ISO / DIN 4796 (Part III)
- Complete with PP screw cap and pouring ring
- Suitable for storage of aggressive media that can damage plastic parts
- All sizes have a durable matt-finished enamelled area for marking

Product Code	Capacity ml	Approx O.D. x Height* mm	Thread Specification	Quantity Per Case	Price / Piece ₹
1220021	250**	70 x 138	GL 45	10	315.00
1220024	500**	86 x 176	GL 45	10	355.00
1220029	1000	101 x 225	GL 45	10	635.00
1220030	2000	136 x 260	GL 45	5	1010.00

**Not covered in ISO / DIN standards.

*Height indicated is of Bottle only

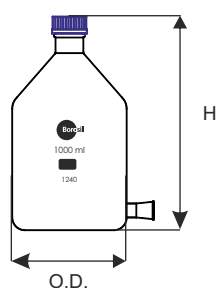


1240 - Bottle, Aspirator, with GL-45 Cap and socket

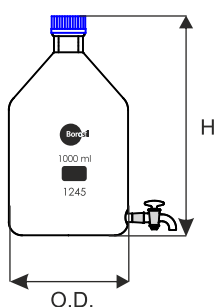
- Complies with IS 1388 (Part III), ISO / DIN 4796 (Part III)
- Complete with PP screw cap and pouring ring
- Suitable for storage of aggressive media that can damage plastic parts
- All sizes have a durable matt-finished enamelled area for marking

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	24 / 29	10	825.00
1240030	2000	136 x 260	GL 45	29 / 32	5	1185.00
1240033	5000	181 x 323	GL 45	29 / 32	1	6850.00
1240038	10000	235 x 405	GL 45	29 / 32	1	9710.00

*Height indicated is of Bottle only



PRICES EXCLUSIVE OF TAXES

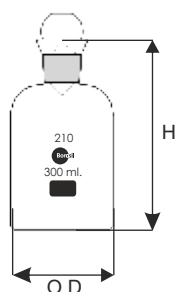


1245 - Bottle, Aspirator, with GL 45 Cap and Interchangeable Stopcock

- Complies with IS 1388 (Part III), ISO / DIN 4796 (Part III)
- Complete with PP screw cap and pouring ring
- Suitable for storage of aggressive media that can damage plastic parts
- All sizes have a durable matt-finished enamelled area for marking
- Dosing of liquids via stopcock

Product Code	Capacity ml	Approx O.D. X Height* mm	Thread Specification	Outlet Ground Joint Size	Quantity Per Case	Price / Piece ₹
1245029	1000	101 x 225	GL 45	24 / 29	10	2295.00
1245030	2000	136 x 260	GL 45	29 / 32	4	2710.00
1245033	5000	181 x 323	GL 45	29 / 32	1	8995.00
1245038	10000	227 x 410	GL 45	29 / 32	1	12310.00
1245040	20000	296 x 500	GL 45	29 / 32	1	16695.00

*Height indicated is of Bottle only



1250 - Bottles, B.O.D. with Interchangeable Stopper and plastic cap

- Complies with IS 9213
- Used for determination of B.O.D. in industrial effluents, waste and water
- Provided with plastic cap to avoid vapours
- Individual number printed on the bottle

Product Code	Capacity ml	Approx O. D. x Height* mm	Quantity Per Case	Price / Piece ₹
1250013	60**	42 x 100	10	360.00
1250017	125**	55 x 120	10	445.00
1250022	300	70 x 143	30	535.00

*Height indicated is of Bottle only

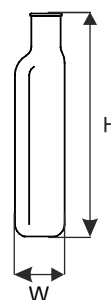
** 60 & 125 ml are not covered in standards

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 and is numbered individually.

1290 - Bottles, Culture, Roux, Off-Set Neck

- Complies with IS 6942
- Designed to hold approximately half of the stated capacity of solution, when the Bottle is laid flat
- The offset neck is tool-finished for greater strength and uniform stopper fit
- These bottles facilitate the growing of mass cultures and single or monolayer cultures
- It withstands repeated sterilisation (wet or dry)

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	26	20	1398.00



136N - Bottles, McCartney Flat, With Aluminium Screw Cap & Rubber Liner, Neutral

- Autoclavable
- Neutral Glass
- Leak Proof clear glass bottle
- With aluminium screw cap with rubber line

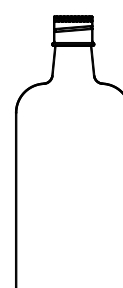
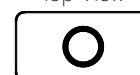
Product Code	Capacity ml	Approx Width x Breadth x Height mm	Quantity Per Case	Price / Piece ₹
0136041	210	63 x 40 x 150	50	140.00

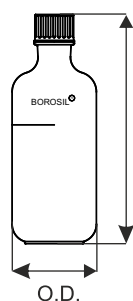
The McCartney bottles are used to carry culture medium and bacterial growth can be done in the bottles.

Application : Diagnosis Laboratories, Microbiological Laboratories, Biological Laboratories and Chemical Laboratories.



Top View





1370 - Bottles, Milk Dilution, Graduated, Screw Cap & Liner

- The screw caps and liner can withstand repeated autoclaving
- These glass bottles meet the requirements for Milk Dilution Bottles stated in the Standard Methods for the Examination of Dairy Products
- Square in shape

Product Code	Capacity ml	Approx O.D. x Height mm	Approx Neck I. D. mm	Quantity Per Case	Price / Piece ₹
1370019	160	150	19	10	590.00

Borosil Reagent Bottle

Borosil Laboratory bottles are chemically resistant and stable. When fitted with a plastic 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.

Properties:

Light protection :

- Amber bottle upto 500 nm

Safe closure ensures storage of products as

- Dairy products
- Serums

High resistance to thermal shock (upto 160°C)

HANDLING :

Sterilization :

Bottles can be steam sterilized after washing. Following are recommendation and guidelines.

- Soiled bottle must be clean first, otherwise microorganism cannot be effectively destroyed and chemicals adhering to surface can damage it as a result of high temperature involved.

- To avoid a buildup of pressure the screw cap should be left loose on the bottle neck (one turn maximum). It should not be closed tight as the pressure then cannot be balanced and consequent in pressure can result in bottle bursting.
- Ensure that saturated steam is used and that it has unhindered access to all contaminated places. This is the only way to achieve effective steam sterilization.

Thawing frozen substances :

The frozen material can be thawed by immersing the bottle in liquid bath taking care that the temperature differences does not exceed 100 degree C. This will ensure that the frozen material heated uniformly from all sides without damaging the bottle. It can however also be thawed slowly so that the surface melts first, allowing the material to expand.

Freezing substances

Recommendation: When freezing, always place the bottles at an angle approx. 45°C and do not fill to more than $\frac{3}{4}$ capacity (to increase surface area). Temperature limit - 40°C as the plastic caps and pouring ring do not withstand lower temperatures.

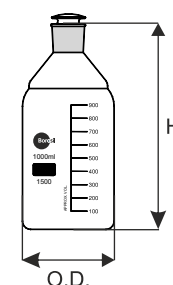
1500 - Bottles Reagent, Plain Narrow Mouth, Graduated with Inter-changeable Flat Head Stopper

- Complies with IS 1388 (Part II), ISO / DIN 4796 (Part II)
- These narrow mouth reagent storage bottles have a sturdy ground neck
- All sizes have a durable matt-finished enamelled area for marking
- These bottles are mechanically strong and chemical resistant
- Supplied with solid glass stopper

Product Code	Capacity ml	Approx O.D. x Height* mm	Neck Stopper Size	Quantity Per Case	Price / Piece ₹
1500013	60**	45 x 100	14 / 23	40	315.00
1500016	100	56 x 105	19 / 26	10	350.00
1500017	125**	56 x 120	19 / 26	50	295.00
1500021	250	70 x 120	19 / 26	10	330.00
1500024	500	86 x 180	24 / 29	10	350.00
1500029	1000	100 x 230	29 / 32	10	560.00
1500030	2000	136 x 255	29 / 32	10	1035.00

*Height indicated is of Bottle only

** 60 & 125 ml is not covered in standards



1501 - Bottles, Reagent, Graduated With Screw Cap and Pouring Ring

- Complies with IS 1388 (Part I), ISO / DIN 4796 (Part I)
- These bottles are mechanically strong and chemical resistant
- Designed with plastic pouring ring for drip-free operation
- The screw caps and pouring ring are made of PP
- The bottles, screw caps and pouring rings can be sterilized and autoclavable
- Printed with a Retrace Code
- 100 ml to 20000 ml Bottles have uniform GL 45 thread

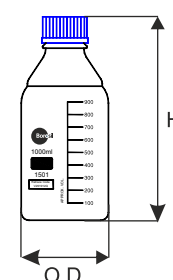
Product Code	Capacity ml	Approx O.D. x Height* mm	Thread Specification	Quantity Per Case	Price / Piece ₹
1501006	10**	36 X 50	GL 25	10	390.00
1501009	25 [#]	36 x 70	GL 25	20	250.00
1501012	50	46 x 87	GL 32	20	285.00
1501016	100	56 x 100	GL 45	10	298.00
1501018	150**	60 x 120	GL 45	10	310.00
1501021	250	70 x 138	GL 45	10	305.00
1501024	500	86 x 176	GL 45	10	330.00
1501029	1000	101 x 225	GL 45	10	515.00
1501030	2000	136 x 260	GL 45	10	930.00
1501031	3000**	158 x 295	GL 45	2	4250.00
1501033	5000***	183 x 323	GL 45	1	5100.00
1501038	10000***	235 x 405	GL 45	1	8800.00
1501040	20000***	296 x 500	GL 45	1	15995.00

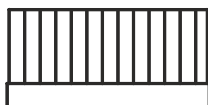
*Height indicated is of Bottle only

[#] Without Pouring Ring

** Not covered in any standard

*** As per Borosil Dimnesion

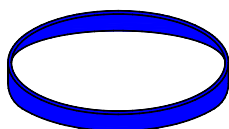




1503 - Screw Cap, with Pouring ring for Screw Cap Bottles

- Caps and pouring rings are made of PP (Polypropylene) and are autoclavable upto 140°C

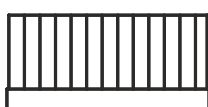
Product Code	Colour Description	Thread Specification	Quantity Per Case	Price / Piece ₹
1503C01	Blue	GL 45	10	65.00
1503C02	Orange	GL 45	10	65.00
1503C03	Yellow	GL 45	10	65.00
1503C04	Green	GL 45	10	65.00
1503C05	Grey	GL 45	10	65.00
1503C06	Blue	GL 25	10	55.00
1503C07	Blue	GL 32	10	55.00
1503C08	Blue	GL 36	10	60.00



1504 - Pouring Ring, Blue Colour

- Pouring rings are made of PP (Polypropylene) and are autoclavable

Product Code	Colour Specification	Thread Specification GL	Quantity Per Case	Price / Piece ₹
1504R01	Blue	GL - 45	10	25.00



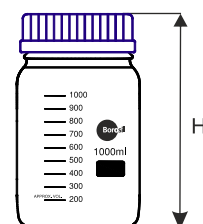
1505 - Red Screw Cap with Pouring ring for Laboratory bottles, auto - clavable upto 200°C

Product Code	Colour Specification	Thread Specification	Quantity Per Case	Price / Piece ₹
1505C01	Red	GL - 45	10	450.00

1506 - Bottles Reagent, Square with DIN Thread, Graduated, with PP Screw Cap (GL 80) and PP Pouring Ring

Product Code	Capacity ml	Approx W x B x H mm	Thread Specification	Quantity Per Case	Price / Piece ₹
1506024	500	94 x 94 x 141	GL-80	10	780.00
1506029	1000	105 x 105 x 187	GL-80	10	875.00
1506030	2000	115 x 115 x 260	GL-80	10	1375.00
1506033	5000	160 x 160 x 357	GL-80	1	8475.00

Amber colour bottles are available on request.



Bottom View



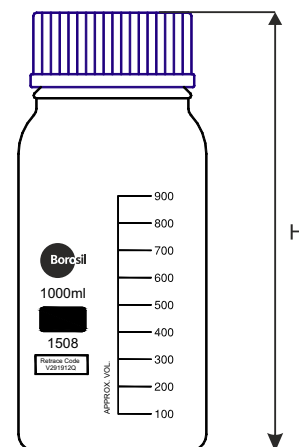
1508 - Bottles, Reagent, Wide Mouth, Graduated, with Screw Cap and Pouring Ring

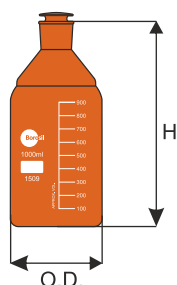
Product Code	Capacity ml	Approx O.D. x Height* mm	Thread Specification Approx O.D. mm	Quantity Per Case	Price / Piece ₹
1508029	1000	101 x 220	80	10	790.00
1508030	2000	136 x 250	80	10	1650.00
1508033	5000	183 x 315	80	1	6500.00
1508038	10000	235 x 390	80	1	12500.00
1508040	20000	296 x 485	80	1	27850.00

*Height indicated is of Bottle only

** 60 & 125 ml is not covered in standards

Similar in design to cat no. 1500





1509 - Bottles, Reagent, **Amber**, Narrow Mouth, Graduated, With Interchangeable Flat Head Stopper

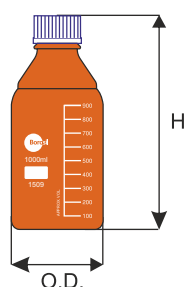
- Complies with IS 1388 (Part II), ISO / DIN 4796 (Part II)
- These narrow mouth reagent storage bottles have a sturdy ground neck
- All sizes have a durable matt-finished enamelled area for marking
- These bottles are mechanically strong and chemical resistant
- The uniform Amber colour is highly durable and has high chemical resistance
- Properties within the bottle remain unchanged, as the colour is applied only on the external surface
- 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
- Supplied with solid glass stopper

Product Code	Capacity ml	Approx O.D. x Height* mm	Neck Stopper Size	Quantity Per Case	Price / Piece ₹
1509013	60**	40 x 100	14 / 23	20	450.00
1509016	100	56 x 105	14 / 15	10	470.00
1509017	125**	56 x 120	19 / 26	20	470.00
1509021	250	70 x 140	19 / 26	10	570.00
1509024	500	86 x 182	24 / 29	10	665.00
1509029	1000	101 x 230	29 / 32	5	855.00
1509030	2000	136 x 255	29 / 32	5	1635.00

*Height indicated is of Bottle only

** 60 & 125 ml is not covered in standards

Similar in design to cat no. 1500



1519 - Bottles, Reagent, **Amber**, Wide Mouth, Graduated, With Screw Cap and Pouring Ring

- Complies with IS 1388 (Part I), ISO / DIN 4796 (Part I)
- These bottles are mechanically strong and chemical resistant
- Designed with plastic pouring ring for drip-free operation
- The screw caps and pouring are made of PP and autoclavable
- Printed with a Retrace Code
- The uniform Amber colour is highly durable and has high chemical resistance
- Properties within the bottle remain unchanged, as the colour is applied only on the external surface
- Ideal for use with light-sensitive media and for long-term storage of substances
- 100 ml to 20000 ml have uniform GL 45 thread

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	455.00
1519009	25#	36 x 70	GL 25	20	385.00
1519012	50#	46 x 87	GL 32	20	445.00
1519016	100	56 x 100	GL 45	10	460.00
1519021	250	70 x 138	GL 45	10	490.00
1519024	500	86 x 176	GL 45	10	580.00
1519029	1000	101 x 225	GL 45	10	760.00
1519030	2000	136 x 260	GL 45	10	1435.00
1519031	3000**	158 X 295	GL 45	2	7650.00
1519033	5000***	183 x 323	GL 45	1	7900.00
1519038	10000***	235 x 405	GL 45	1	11500.00
1519040	20000***	299 x 500	GL 45	1	17000.00

*Height indicated is of Bottle only

Without Pouring rings

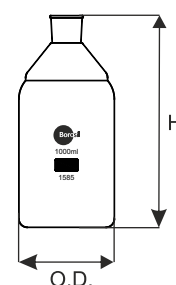
**Not covered in any standard

***As per BOROSIL dimensions

1585 - Bottles, Solution, Plain, Tooled Neck

- These bottles are mechanically strong and chemical resistant
- 10, 20 & 50 litre bottles specially designed for handling and storing culture media
- All sizes have a durable matt-finished enamelled area for marking

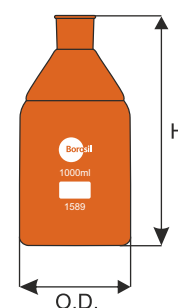
Product Code	Capacity ml	Approx O.D. x Height mm	Approx Neck I. D. mm	Quantity Per Case	Price / Piece ₹
1585021	250	70 x 140	18	20	290.00
1585024	500	86 x 180	23	20	315.00
1585029	1000	101 x 230	28	10	525.00
1585030	2000	136 x 285	33	10	895.00
1585031	3000	158 x 255	44	4	2800.00
1585033	5000	183 x 330	44	1	5250.00
1585038	10000	235 x 430	54	1	9100.00
1585040	20000	299 x 530	54	1	14900.00
1585046	50000	417 x 665	89	1	75375.00



1589 - Bottles, Solution, **Amber**, Tooled Neck

- These bottles are mechanically strong and chemical resistant
- All sizes have a durable matt-finished enamelled area for marking
- The uniform Amber colour is highly durable and has high chemical resistance
- Properties within the bottle remain unchanged, as the colour is applied only on the external surface
- Protects media from light radiation with a wave-length between 300 nm and 500nm
- Ideal for use with light-sensitive media and for 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 140	18	10	560.00
1589024	500	86 x 180	23	20	585.00
1589029	1000	101 x 230	28	5	830.00
1589030	2000	136 x 255	33	5	1480.00



Similar in design to Cat No. 1585

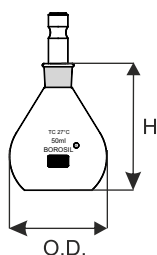
For Higher Capacities please contact our Sales Offices or our Authorised Dealers



1624 - Bottles, Relative Density, with Capillary Bore Interchangeable Teflon Stopper

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

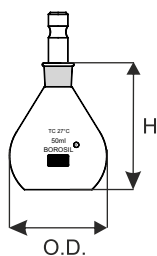
Product Code	Capacity ml	Capacity Tolerance +ml	Max. Body Dia x Height mm	Size of Inter-Changeable Stopper	Quantity Per Case	Price/Piece ₹
1624006	10	0.3	29 x 48	10 / 15	5	860.00
1624009	25	0.8	40 x 55	10 / 15	5	1015.00
1624012	50	1.0	50 x 65	10 / 15	5	1070.00



1625 - Bottles Relative density, with Capillary bore Interchangeable Teflon stopper

- Complies with IS 5717, ISO / DIN 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	415.00
1625009	25	2	40 x 55	10 / 15	10	450.00
1625012	50	3	50 x 65	10 / 15	5	485.00

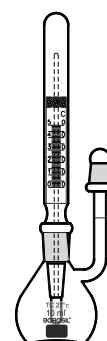


1627 - Bottles Specific , Gravity Bottle with thermometer(Pyknometer)

- Complies with IS 5717, ISO / DIN 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	Quantity Per Case	Price / Piece ₹
1627006	10	5	1160.00
1627009	25	5	1365.00
1627012	50	5	1475.00

Suitable for determining the density with built in thermometer & thermometer pocket.



1630 - Bottles, Weighing, With Interchangeable Stopper

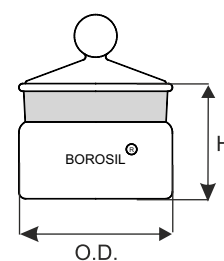
- Complies with IS 1574
- These bottles are mechanically strong and chemical resistant

Product Code	Capacity ml	Approx O.D. x Height* mm	Quantity Per Case	Price / Piece ₹
1630005	5	20 x 40	30	250.00
1630007	15	25 x 65	10	270.00
1630008	20**	50 x 35	10	555.00
1630009	25	30 x 65	10	325.00
1630011	40**	60 x 40	10	780.00
1630013	60	40 x 90	5	495.00

*Height indicated is of Bottle only

**Squat Form

- Also available in **Amber** colour on request

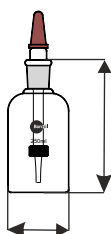




1640 - Bottles, Dropping with Pipette & Rubber Teat

- Made from 3.3 borosilicate glass
- Highly chemical resistance
- Supplied with interchangeable ground joint transparent pipette with rubber teat

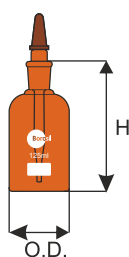
Product Code	Capacity ml	Approx O.D. x Height mm	Socket Size	Quantity Per Case	Price / Piece ₹
1640010	30	35 x 84	14 / 19	10	255.00
1640013	60	42 x 100	14 / 19	10	345.00
1640017	125	55 x 120	19 / 26	10	365.00
1640021	250	65 x 147	19 / 26	10	485.00



1650 - Bottles, Dropping with Pipette & Rubber Teat, **Amber**

- Made from 3.3 borosilicate glass
- Highly chemical resistance
- Supplied with interchangeable ground joint Amber pipette with rubber teat
- Ideal for light sensitive material

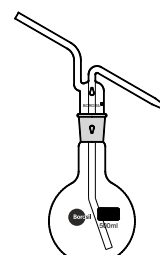
Product Code	Capacity ml	Approx O.D. x Height mm	Socket Size	Quantity Per Case	Price / Piece ₹
1650010	30	35 x 84	14 / 19	10	415.00
1650013	60	42 x 100	14 / 19	10	550.00
1650017	125	55 x 120	19 / 26	10	585.00
1650021	250	65 x 147	19 / 26	10	770.00



1660 - Bottles, Wash, Complete with Interchangeable Stopper

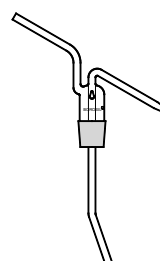
- These bottles are mechanically strong and chemical resistant
- All sizes have a durable matt-finished enamelled area for marking

Product Code	Capacity ml	Size of Inter-changeable Stopper	Quantity Per Case Set	Price / Piece ₹
1660021	250	24 / 29	5	500.00
1660024	500	24 / 29	5	540.00
1660029	1000	29 / 32	5	780.00



1661 - Stoppers, Only For Wash Bottles Cat. No. 1660

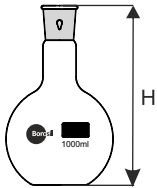
Product Code	Capacity ml	Size of Inter-changeable Stopper	Quantity Per Case Set	Price / Piece ₹
1661021	250	24 / 29	5	350.00
1661024	500	24 / 29	5	410.00
1661029	1000	29 / 32	5	450.00





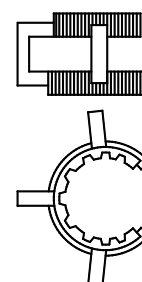
1662 - Bottles, Only for Wash Bottles Cat No. 1660

Product Code	Capacity ml	Approx Height mm	Size Interchangeable Stopper	Quantity Per Case	Price / Piece ₹
1662021	250	130	24 / 29	5	170.00
1662024	500	160	24 / 29	5	250.00
1662029	1000	195	29 / 32	5	350.00



1665 - Plastic Clamp for Joint Fittings

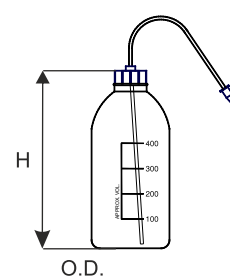
Product Code	Joint mm	Quantity Per Case	Price / Piece ₹
1665B14	B 14	10	44.00
1665B19	B 19	10	46.00
1665B24	B 24	10	48.00
1665B29	B 29	10	50.00



166P - Bottles, Wash, LDPE Plastic, Squeeze type, Screw Cap, Fitted With Stoppers and 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 ₹
0166024	500	75	167	36	99.00

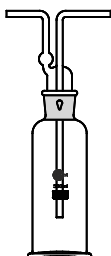




1760 - Bottles, Gas Washing (Dreschel), Complete with Interchangeable Stopper

- 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	Size of Inter-changeable Stopper	Quantity Per Case Set	Price / Piece ₹
1760017	125	29 / 32	5	740.00
1760021	250	29 / 32	5	810.00
1760024	500	29 / 32	5	1090.00



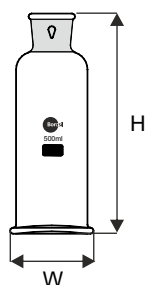
1761 - Stoppers, Only for Gas Washing Bottles

Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
1761017	125	5	350.00
1761021	250	5	375.00
1761024	500	5	410.00



1762 - Bottles, Only for Gas Washing Bottles

Product Code	Capacity ml	Approx O. D. x Height mm	Quantity Per Case Set	Price / Piece ₹
1762017	125	50 x 165	5	440.00
1762021	250	60 x 190	5	490.00
1762024	500	70 x 245	5	810.00



1764 - Tubes, Gas Sampling, with Stopcocks

- Complies with DIN 12473

Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
1764017	125*	10	471.00
1764021	250*	10	593.00
1764024	500	10	842.00
NEW 1764029	1000	10	1450.00

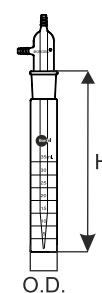
*Not covered in standards



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 170	10	380.00



Burettes



- Manufactured from 3.3 Low Expansion Borosilicate I.D. control tubing.
- Individually calibrated to automatic calibration process
- Permanent quality control through all steps eliminate possible deviations from nominal volume
- Individual certificate can be downloaded from our website
- Graduation and inscriptions are printed with white enamel
- Comes with highest quality standards according to **IS 1997** and **ISO 385**
- Supplied with PTFE stopcock, Boroflo stopcock and Straight Bore Glass Stopcock

Accuracy, reliability and durability are the essentials of a Burette. Only Borosil brand Burettes offer you these three benefits even after repeated usage, as they are made with a combination of the best material and workmanship. The highest quality accurate bore tubing is selected to provide uniform and accurate graduations. Each Burette is individually calibrated on a fully automatic machine for precision and high accuracy. All graduations are marked in durable white enamel. The stopcock plugs are not interchangeable.

In addition to Burettes with glass stopcocks, Borosil offers Burettes with straight bore PTFE stopcocks and a range of Boroflo Burettes fitted with Boroflo (GP) screw thread stopcocks with PTFE keys.

Boroflo Burettes fitted with Boroflo GP (General Purpose) screw thread stopcocks with PTFE keys offer the following operational advantages:

- Lubrication is never required, ensuring no seizure and no contaminating greases.
- Excellent flow control that is important for Burettes
- All-glass/PTFE pathway, highly resistant to chemical attack
- The unique Fluon/glass seal ensures no leakage.
- No springs or retaining devices makes it easy to dismantle and clean them.
- Absence of ground surfaces results in low absorption of radioactivity.
- Consistent performance between 0°C and 50°C

Borosil offers Class A Burettes for accurate work.



- Boroflo stopcocks have PTFE keys which do not require greasing.
- This PTFE keys provide best drop control during titration process.
- Due to identical shape of PTFE key it Burette valve can be closed with gentle turn.
- PTFE stopcocks have identical keys, hence matching the pairs is not required during cleaning.
- PTFE is self lubricating hence keys do not require greasing
- Specially designed solid glass stopcocks are manufactured from 3.3 Low expansion borosilicate glass.
- Glass stopcocks are perfectly ground, hence no leakage occurs.



2121-Burettes, Boroflo, Fitted With Boroflo GP (General Purpose), Screw Thread Stopcocks with PTFE Keys, Accuracy as per Class A of IS 1997:2008 / ISO 385 : 2005, with Certificate

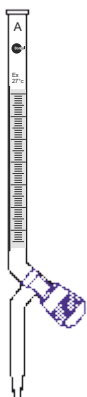
- Generally used in Titration process
- Comes with Boroflo with PTFE key that is highly resistant to chemical attack
- No need to lubricate it as PTFE key is used.

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2121006	10	0.05	0.03	5	1645.00
2121009	25	0.1	0.05	5	1695.00
2121012	50	0.1	0.05	5	1930.00
2121016	100	0.2	0.10	5	2710.00

2122-Burettes, Boroflo, Fitted With Boroflo GP (General Purpose), Screw Thread Stopcocks with PTFE Keys, Accuracy as per Class B of IS 1997 : 2008 / ISO 385 : 2005

- Generally used in Titration process
- Comes with Boroflo with PTFE key that is highly resistant to chemical attack
- No need to lubricate it as PTFE key is used.

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2122006	10	0.05	0.05	5	555.00
2122009	25	0.1	0.10	5	522.00
2122012	50	0.1	0.10	5	565.00
2122016	100	0.2	0.20	5	845.00



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CERTIFIED**

2000 - Burettes, Boroflo GP (General Purpose), Screw Thread Stopcocks With PTFE Keys, Accuracy as per Class A, with Certificate, NABL Certified

- Complies with IS 1997, ISO / DIN 385

Product Code	Capacity ml	Graduation Interval	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2000006	10	0.05	0.02	1	3198.00
2000009	25	0.1	0.05	1	3303.00
2000012	50	0.1	0.05	1	3741.00
2000016	100	0.2	0.1	1	5266.00

2123-Burettes, Straight Bore Stopcock, Accuracy as per Class A of IS 1997:2008 / ISO 385 : 2005, with Certificate

- Generally used in Titration process
- Designed with straight bore stopcock that increases the life, compared to PTFE key stopcocks
- The glass stopcock enhances control and enables smoother action.

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2123005	5*	0.02	0.01	5	1770.00
2123006	10	0.05	0.03	5	1770.00
2123009	25	0.10	0.05	5	1825.00
2123012	50	0.10	0.05	5	2075.00
2123016	100	0.10	0.10	5	2995.00

2124-Burettes, Straight Bore Stopcock, Accuracy as per Class B of IS 1997 : 2008 / ISO 385 : 2005

- Generally used in Titration process
- Designed with straight bore stopcock that increases the life, compared to PTFE key stopcocks
- The glass stopcock enhances control and enables smoother action.

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2124005	5*	0.02	0.02	5	745.00
2124006	10	0.05	0.05	5	631.00
2124009	25	0.10	0.10	5	620.00
2124012	50	0.10	0.10	5	658.00
2124016	100	0.20	0.20	5	940.00

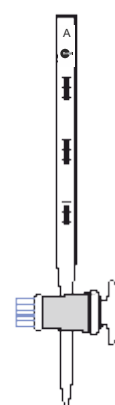


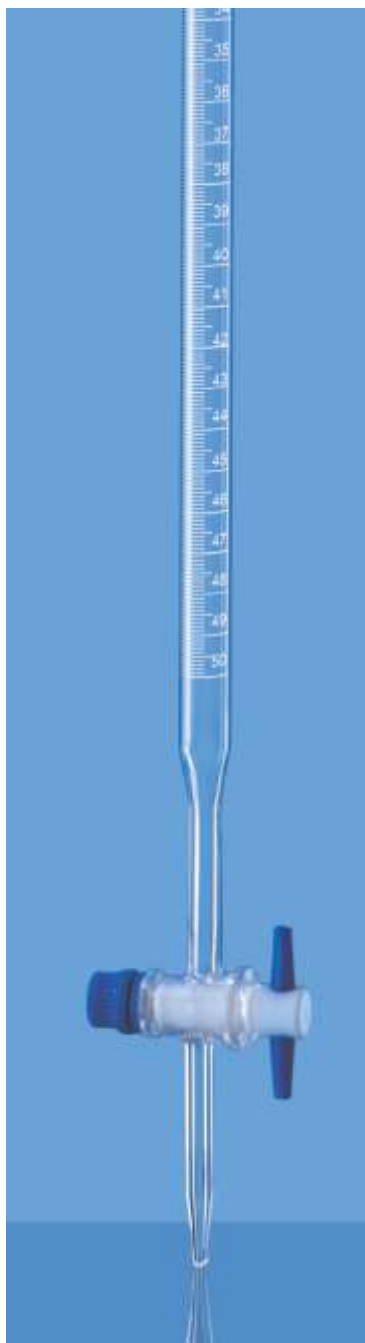
**NABL
CERTIFIED**

2002 - Burettes, Straight Bore Stopcock, Accuracy As per Class A, With Certificate, NABL Certified

- Complies with IS 1997, ISO / DIN 385

Product Code	Capacity ml	Graduation Interval	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2002006	10	0.05	0.02	1	3293.00
2002009	25	0.1	0.05	1	3420.00
2002012	50	0.1	0.05	1	3905.00
2002016	100	0.2	0.1	1	5551.00





2129-Burettes, Straight Bore PTFE Key Stopcock, Accuracy as per Class A of IS 1997:2008 / ISO 385 : 2005, with Certificate

- Generally used in Titration process
- Comes with PTFE key that is highly resistant to chemical attack
- No need to lubricate it as PTFE key is used.

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2129012	50	0.10	0.05	5	2077.00

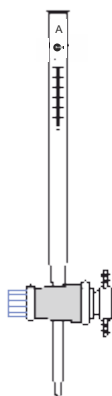
* Burettes for other capacities are available on request

2130-Burettes, Straight Bore PTFE Key Stopcock, Accuracy as per Class B of IS 1997:2008 / ISO 385 : 2005

- Generally used in Titration process
- Comes with PTFE key that is highly resistant to chemical attack
- No need to lubricate it as PTFE key is used.
- The volume content tolerances conform to Class B of IS and ISO

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2130012	50	0.10	0.10	5	810.00

* Burettes for other capacities are available on request



2131 - Burettes, Boroflo, Fitted With Boroflo GP (General Purpose), Screw Thread Stopcocks With PTFE Keys, Accuracy as per Class A Of IS 1997 : 2008 / ISO 385 : 2005, with Certificate, Amber

- Generally used in Titration process
- Comes with Boroflo with PTFE key that is highly resistant to chemical attack
- No need to lubricate it as PTFE key is used.
- Amber colour is applied to the external surface to prevent contamination with the testing material.

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2131009	25	0.1	0.05	5	2800.00
2131012	50	0.1	0.05	5	3100.00

2132 - Burettes, Boroflo, Fitted With Boroflo GP (General Purpose), Screw Thread Stopcocks With PTFE Keys, Accuracy as per Class B Of IS 1997 : 2008 / ISO 385 : 2005, Amber

- Generally used in Titration process
- Comes with Boroflo with PTFE key that is highly resistant to chemical attack
- No need to lubricate it as PTFE key is used.
- Amber colour is applied to the external surface to prevent contamination with the testing material.

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2132009	25	0.1	0.1	5	848.00
2132012	50	0.1	0.1	5	935.00

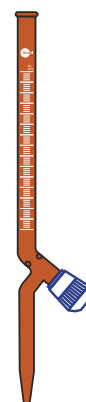


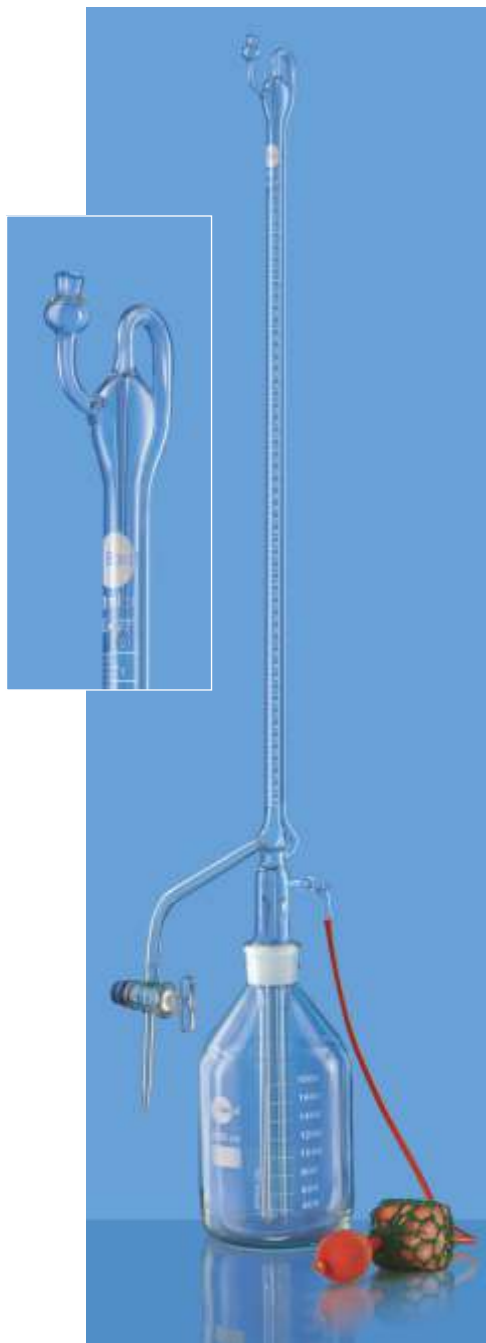
**NABL
CERTIFIED**

2001 - Burettes, Boroflo GP (General Purpose), Screw Thread Stopcocks PTFE Keys, Accuracy As Per Class A, With Certificate, NABL Certified, Amber

- Complies with IS 1997, ISO / DIN 385

Product Code	Capacity ml	Graduation Interval	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2001009	25	0.1	0.05	1	5092.00
2001012	50	0.1	0.05	1	5762.00

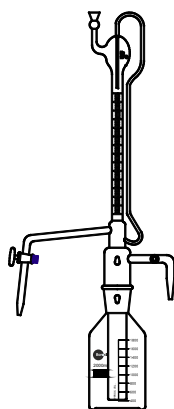




2149-Burettes, Automatic Zero, Accuracy as per Class A IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow, Glass Stopcock, with Certificate

- Complies with IS 1997, DIN / ISO 385
- With automatic zero facility
- Individually tested for exact volume dispensed at 3 points on the scale
- Alpha numeric serial number on the article and certificate provide complete traceability the standards
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With Glass stopcock

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2149006	10	0.05	0.03	1	6475.00
2149009	25	0.10	0.05	1	6265.00
2149012	50	0.10	0.05	1	7010.00
2149016	100	0.20	0.10	1	7975.00



2150-Burettes, Automatic Zero, Accuracy as per Class B IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow and Glass Stopcock

- Complies with IS 1997, DIN / ISO 385
- With automatic zero facility
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With Glass stopcock

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2150006	10	0.05	0.05	1	4155.00
2150009	25	0.10	0.1	1	4090.00
2150012	50	0.10	0.1	1	4430.00
2150016	100	0.20	0.2	1	5045.00

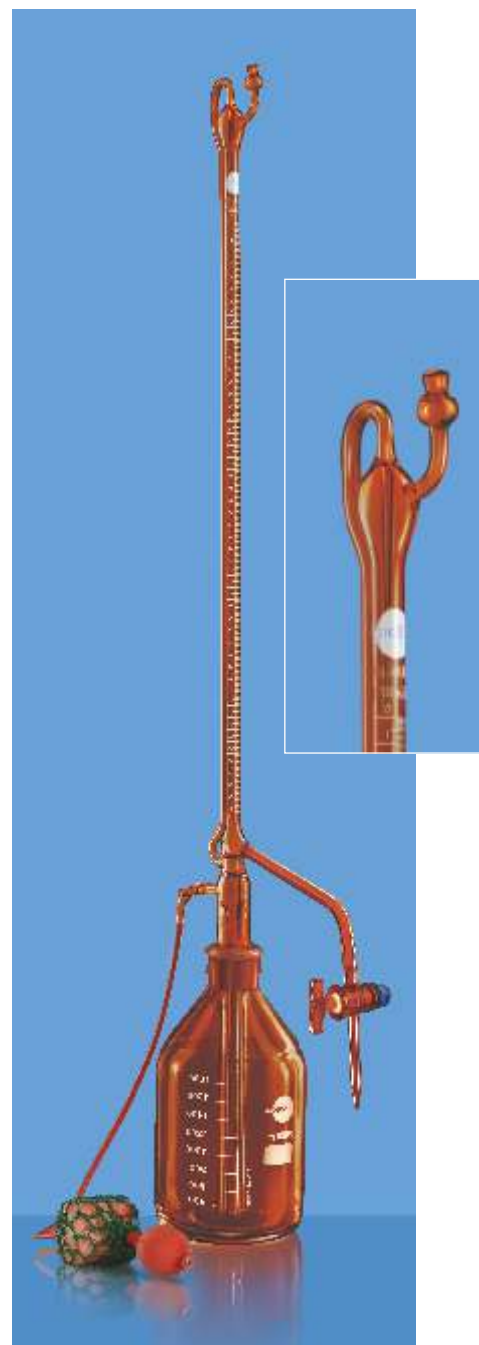
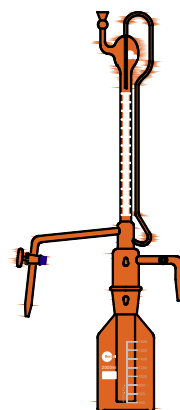


2149A-Burettes, Automatic Zero, Accuracy as per Class A IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow, Glass Stopcock, **Amber** with Certificate

- Complies with IS 1997, ISO / DIN 385
- With automatic zero facility
- Individually tested for exact volume dispensed at 3 points on the scale
- Alpha numeric serial number on the article and certificate provide complete traceability the standards
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With Glass stopcock

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2149A06	10	0.05	0.02	1	13655.00
2149A09	25	0.1	0.05	1	14515.00
2149A12	50	0.1	0.05	1	15855.00
2149A16	100	0.2	0.1	1	16400.00

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



2150A-Burettes, Automatic Zero, Accuracy as per Class B, IS 1997: 2008 / ISO 385: 2005, with Reservoir, Rubber Bellow and Glass Stopcock, **Amber**

- Complies with IS 1997, ISO / DIN 385
- With automatic zero facility
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With Glass stopcock

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2150A06	10	0.05	0.02	1	9500.00
2150A09	25	0.1	0.05	1	9625.00
2150A12	50	0.1	0.05	1	9805.00
2150A16	100	0.2	0.1	1	10300.00

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



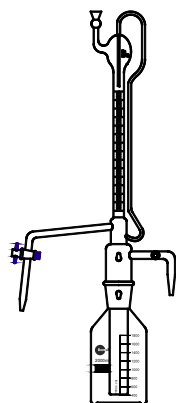


2153-Burettes, Automatic Zero, Accuracy as per Class A IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow, PTFE Stopcock with Certificate

- Complies with IS 1997, ISO / DIN 385
- With automatic zero facility
- Individually tested for exact volume dispensed at 3 points on the scale
- Alpha numeric serial number on the article and certificate provide complete traceability the standards
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With PTFE stopcock

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2153006	10	0.05	0.02	1	6830.00
2153009	25	0.1	0.05	1	6675.00
2153012	50	0.1	0.05	1	7405.00
2153016	100	0.2	0.10	1	8460.00

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



2154-Burettes, Automatic Zero, Accuracy as per Class B IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow, PTFE Stopcock

- Complies with IS 1997, ISO / DIN 385
- With automatic zero facility
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With PTFE stopcock

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2154006	10	0.05	0.05	1	4390.00
2154009	25	0.1	0.1	1	4288.00
2154012	50	0.1	0.1	1	4665.00
2154016	100	0.2	0.2	1	5305.00

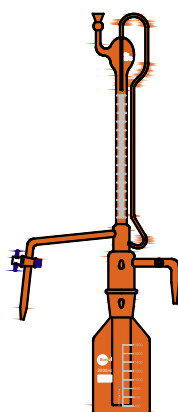
Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.

2153A-Burettes, Automatic Zero, Accuracy as per Class A IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow, PTFE Stopcock **Amber** With Certificate

- Complies with IS 1997, ISO / DIN 385
- With automatic zero facility
- Individually tested for exact volume dispensed at 3 points on the scale
- Alpha numeric serial number on the article and certificate provide complete traceability the standards
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With PTFE stopcock

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2153A06	10	0.05	0.02	1	14100.00
2153A09	25	0.1	0.05	1	15155.00
2153A12	50	0.1	0.05	1	16505.00
2153A16	100	0.2	0.10	1	17305.00

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

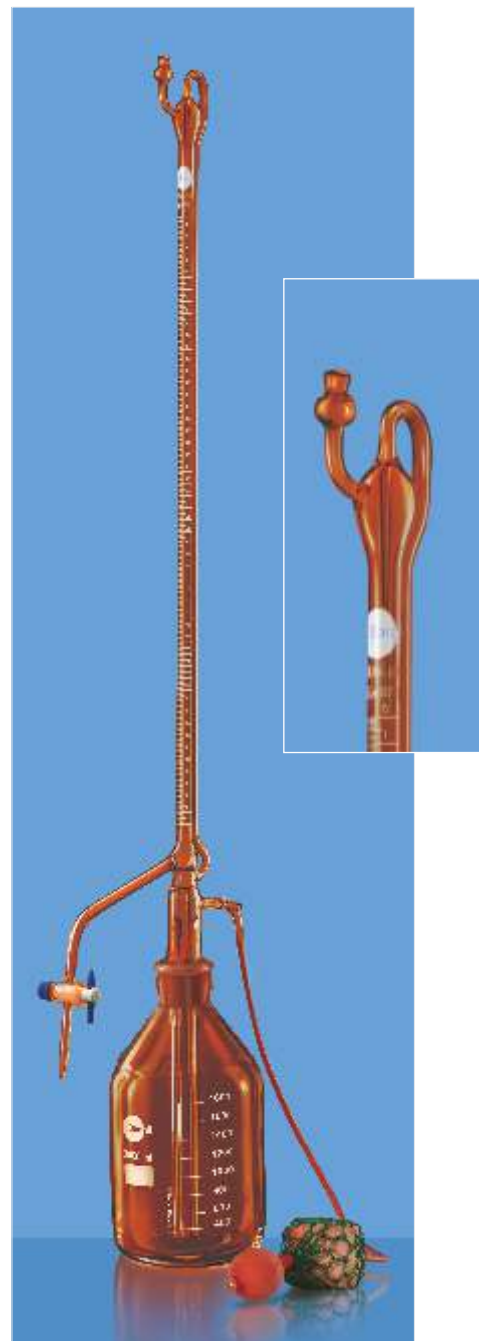


2154A-Burettes, Automatic Zero, Accuracy as per Class B IS 1997: 2008 / ISO 385 : 2005, With Reservoir, Rubber Bellow, PTFE Stopcock, **Amber**

- Complies with IS 1997, ISO / DIN 385
- With automatic zero facility
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With PTFE stopcock

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2154A006	10	0.05	0.05	1	9600.00
2154A009	25	0.1	0.1	1	9190.00
2154A012	50	0.1	0.1	1	9340.00
2154A016	100	0.2	0.2	1	9950.00

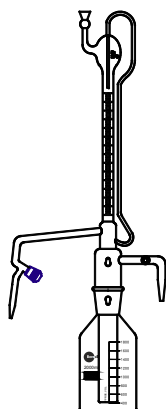
Reservoir Capacity : 500 ml for 10 ml size and 2000 ml for 25, 50 and 100 ml sizes.



2155-Burettes, Automatic Zero, Accuracy as per Class A IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow and Boroflo Stopcock With Certificate

- Complies with IS 1997, ISO / DIN 385
- With automatic zero facility
- Individually tested for exact volume dispensed at 3 points on the scale
- Alpha numeric serial number on the article and certificate provide complete traceability the standards
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With Boroflo stopcock

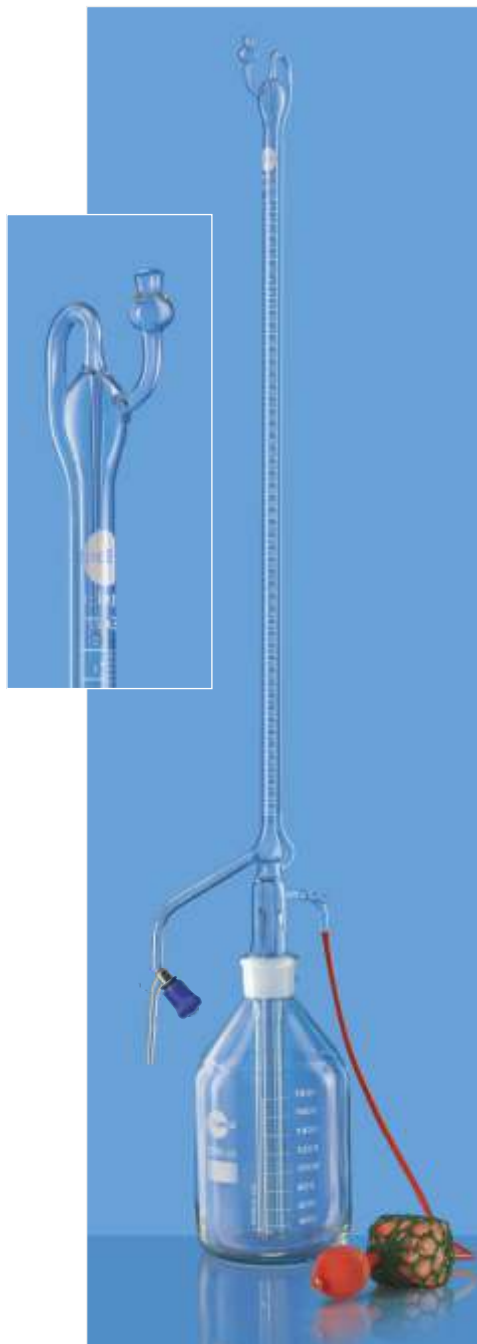
Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2155006	10	0.05	0.03	1	6255.00
2155009	25	0.10	0.05	1	6095.00
2155012	50	0.10	0.05	1	6765.00
2155016	100	0.20	0.10	1	7690.00



2156-Burettes, Automatic Zero, Accuracy as per Class B IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow, Boroflo Stopcock

- Complies with IS 1997, ISO / DIN 385
- With automatic zero facility
- Simple operation
 - To fill burette apply a slight positive pressure to lower side arm
 - To set zero, release pressure to allow excess liquid to siphon back into the bottle
- Burettes manufactured from chemically resistant 3.3 borosilicate glass
- White enamel graduations
- With Boroflo stopcock

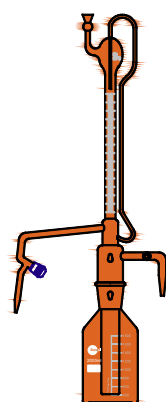
Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2156006	10	0.05	0.05	1	4050.00
2156009	25	0.10	0.10	1	3949.00
2156012	50	0.10	0.10	1	4325.00
2156016	100	0.20	0.20	1	4970.00



2155A-Burettes, Automatic Zero, Accuracy as per Class A IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow and Boroflo Stopcock **Amber** with Certificate

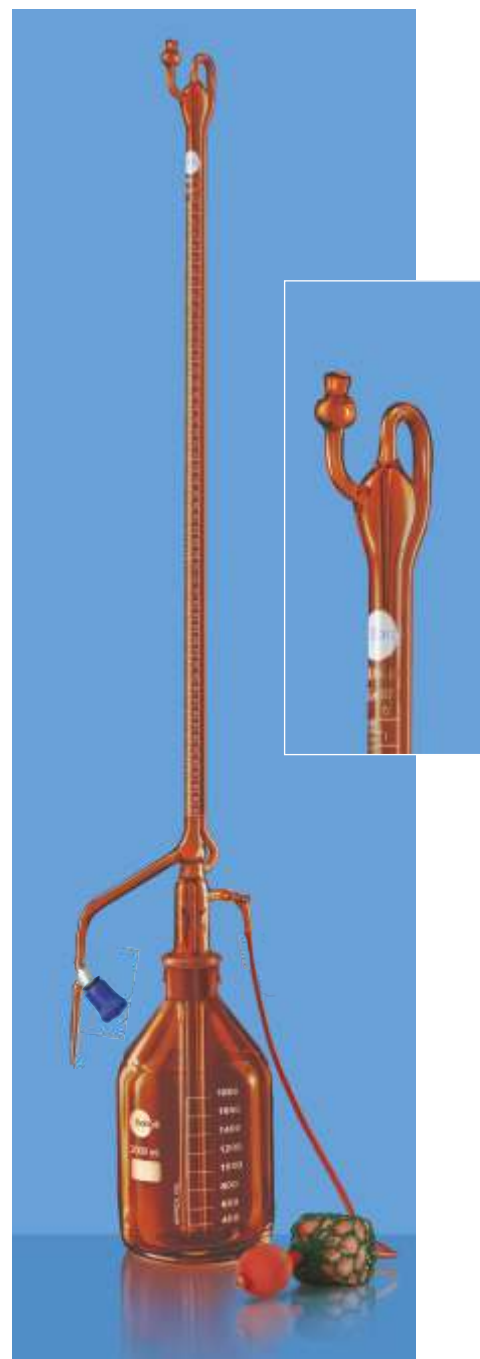
Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2155A006	10	0.05	0.02	1	13500.00
2155A009	25	0.1	0.05	1	14200.00
2155A012	50	0.1	0.05	1	15855.00
2155A016	100	0.2	0.10	1	16300.00

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



2156A-Burettes, Automatic Zero, Accuracy as per Class B IS 1997: 2008 / ISO 385 : 2005, with Reservoir, Rubber Bellow, Boroflo Stopcock, **Amber**

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2156A06	10	0.05	0.05	1	9400.00
2156A09	25	0.1	0.1	1	9500.00
2156A12	50	0.1	0.1	1	9875.00
2156A16	100	0.2	0.2	1	10300.00



Cones

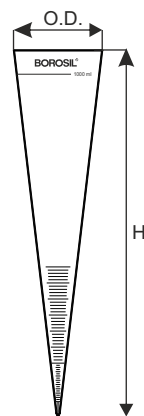


Cones are used to determine small amounts of suspended matter in sewage by the Imhoff Sedimentation Method.

2160 - Cones, Imhoff, Sediment, 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

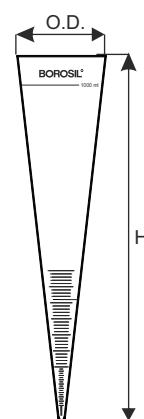
Product Code	Approx Total Height mm	Approx Top Diameter mm	Quantity Per Case	Price / Piece ₹
2160094	454	110	1	4158.00



2180 - Cones, Imhoff, Sediment, 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	4243.00



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.

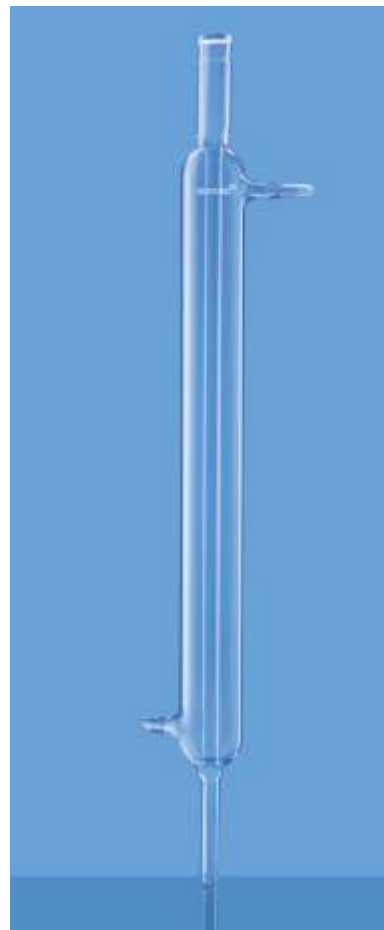
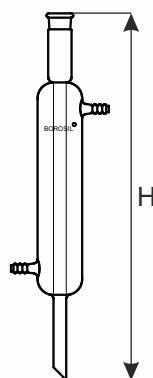
Special care should be taken while choosing Condensers keeping in mind their distillation rates, reflux rates and temperature gradients.

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

2340 - Condensers, Liebig, with Sealed Inner Tube

- Simple design
- The light wall of the inner tube facilitates efficient heat transfer
- Low cooling capacity
- Used for distillate separation

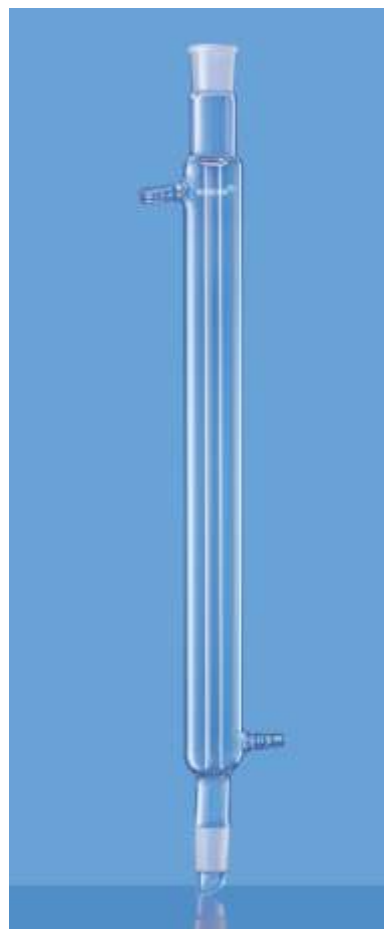
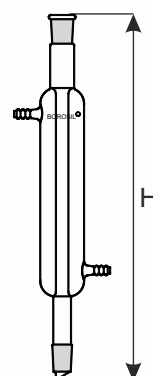
Product Code	Approx Jacket Length mm	Approx Overall Height mm	Interchangeable Joints	Quantity Per Case	Price / Piece ₹
2340087	200	350	19 / 15	5	460.00
2340090	300	450	19 / 15	5	390.00
2340092	400	550	19 / 15	5	405.00
2340095	500	650	19 / 15	5	495.00

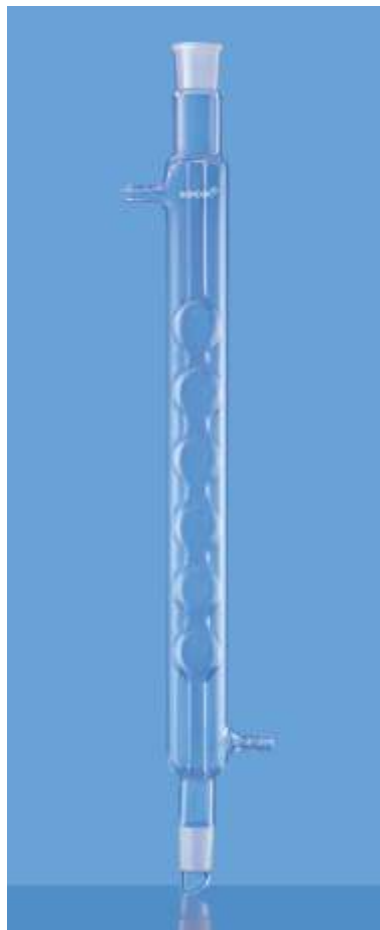


2400 - Condensers, Liebig, Drip Tip, Interchangeable Inner and Outer Joint

- Simple design
- 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	Interchangeable Joints		Quantity Per Case	Price / Piece ₹
			Inner	Outer		
2400087	200	350	19 / 26	19 / 26	5	460.00
2400090	300	450	24 / 29	24 / 29	5	495.00
2400092	400	550	24 / 29	24 / 29	5	575.00

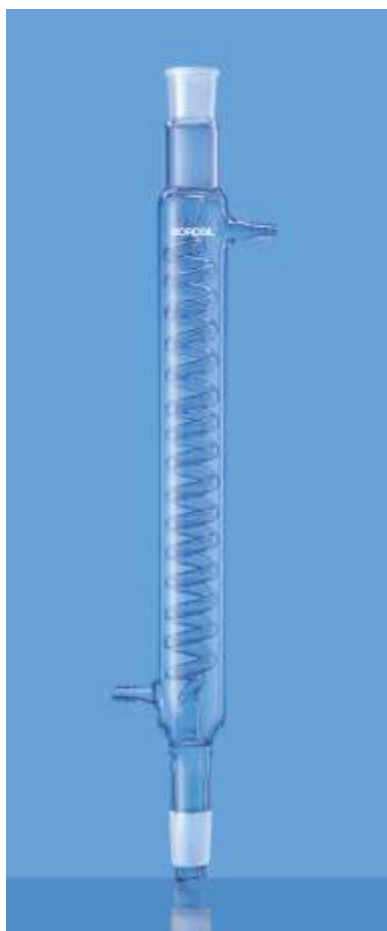
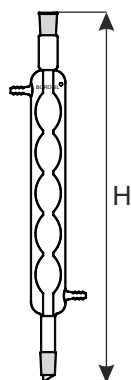




2480 - Condensers, Allihn, Drip Tip, Interchangeable Inner and Outer Joint

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

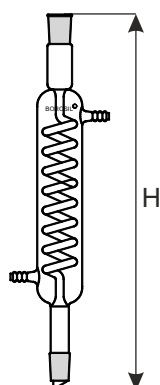
Product Code	Approx Jacket Length mm	Approx Overall Height mm	Interchangeable Joints		Quantity Per Case	Price / Piece ₹
			Inner	Outer		
2480087	200	330	19 / 26	19 / 26	5	575.00
2480090	300	450	24 / 29	24 / 29	5	595.00
2480092	400	550	24 / 29	24 / 29	5	695.00
2480096	600	750	29 / 32	29 / 32	5	940.00



2560 - Condensers, Graham, Coiled Distillate Type, Drip Tip, 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

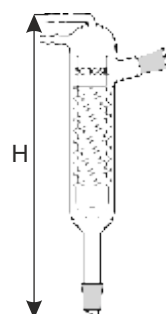
Product Code	Approx Jacket Length mm	Approx Overall Height mm	Interchangeable Joints		Quantity Per Case	Price / Piece ₹
			Inner	Outer		
2560090	300	450	24 / 29	24 / 29	5	695.00
2560092	400	550	24 / 29	24 / 29	5	725.00
2560095	500	650	24 / 29	24 / 29	5	890.00



2640 - Condensers, Friedrichs, Drip Tip, Interchangeable Inner and Outer Joint

- Specially designed inner spiral tubes ensure a long vapour path
- Offer better heat transfer and anti-flooding capabilities

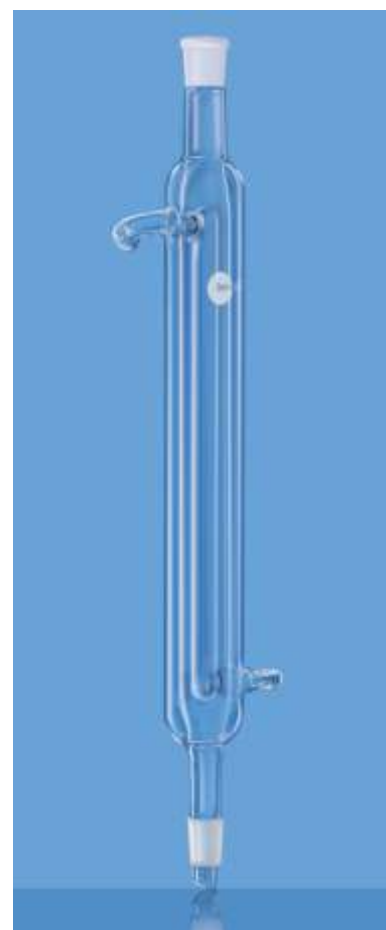
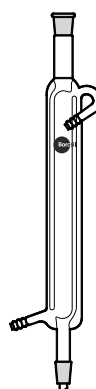
Product Code	Approx Overall Height mm	Interchangeable Joints		Quantity Per Case	Price / Piece ₹
		Inner	Outer		
2640097	350	24 / 29	24 / 29	5	2765.00



2641 - Condensers, Double Surface

Product Code	Length of Height mm	Ground Joint	Quantity Per Case	Price / Piece ₹
2641087	200	19 / 26	5	1757.00
2641187	200	24 / 29	5	1878.00
2641090	300	19 / 26	5	2316.00
2641190	300	24 / 29	5	2535.00

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, esters, aromatics, petroleum products, and essential oils these condensers are widely used.



Cylinders



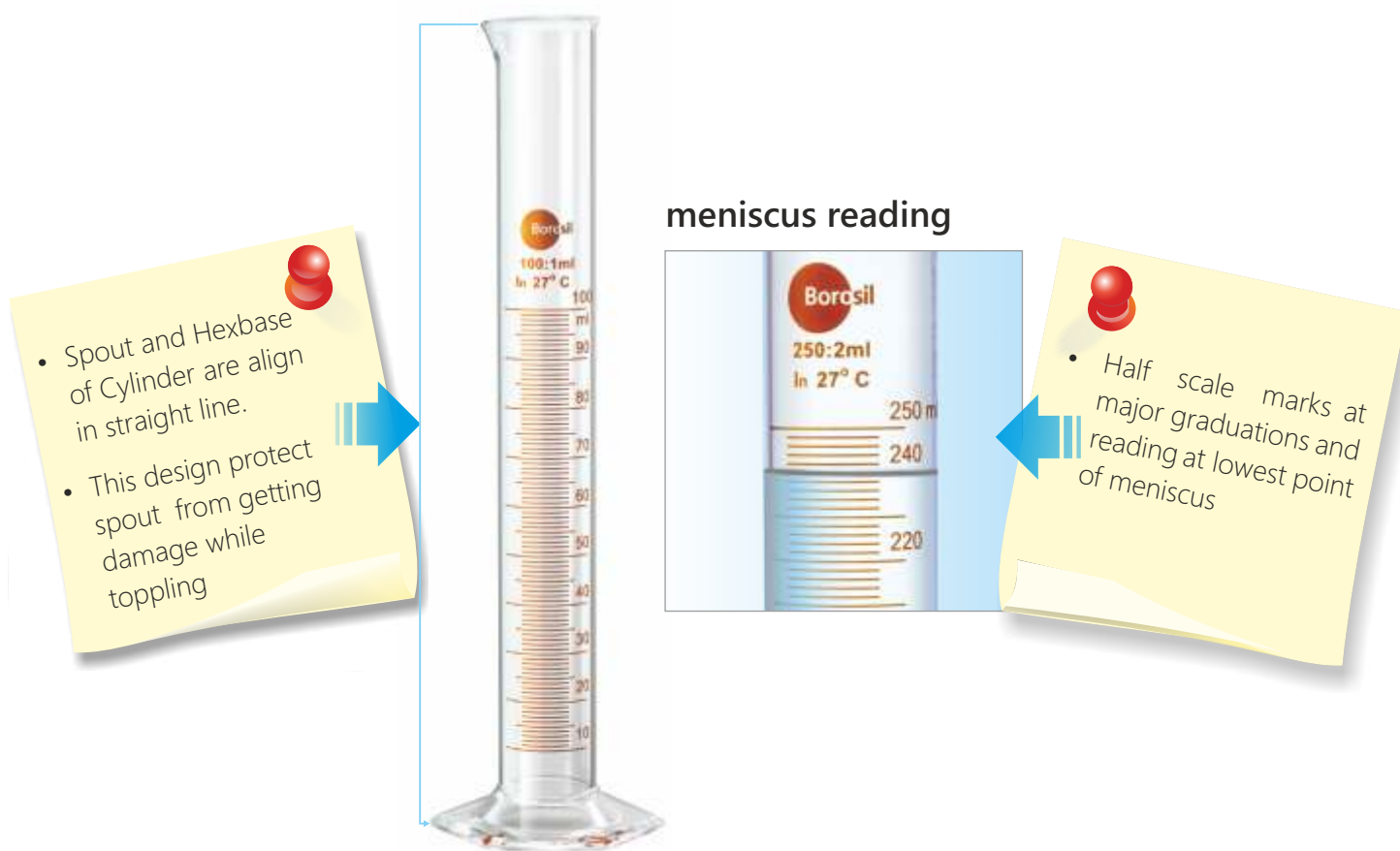
Measuring cylinders serve simultaneously to receive and measure different amounts of liquids. Made from specially drawn 3.3 Borosilicate glass tubing with durable, easy to read graduations for assured accuracy.

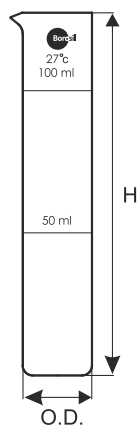
Borosil Brand Cylinders are built to last. We have built strength features into every cylinder. Heavy uniform wall tubing and strong stable hexagonal base contribute to sturdiness. Hexagonal base also prevents them from rolling off a laboratory bench. They are available in capacities from 5 ml to 2000 ml.

For accurate work, Class A certified cylinders are available.

Our range also includes Nessler Colour Comparison and Rain Measure Cylinders.

- Complies with highest quality standards according to IS 878 and ISO / DIN 4788
- Manufactured From 3.3 Low expansion borosilicate glass with precision bore tubing
- Individually calibrated on automatic calibration machine for precision and high accuracy
- Strict quality control through all steps eradicate possible deviations
- All measuring cylinders are calibrated to contain (TC, In) and all tolerances are according to IS / ISO / DIN / ASTM class " A" Standards
- Supplied with individual certificate and can be download from our website
- Specially designed hexagonal base provides sturdiness to the cylinder
- Perfect spout designed assures pouring without any drips
- Graduations and Inscriptions are printed in amber / white enamel
- Cylinders are also available with penny head stopper





2975 - Cylinders, Colour Comparison, Nessler, Flat Bottom, Graduated

- Complies with IS 4161
- Facilitates colour comparison of water samples
- Manufactured from precision bore 3.3 borosilicate tubing selected for freedom from colour or visible defects
- White enamel inscriptions

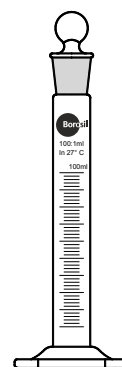
Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
2975012	50	25 x 150	20	163.00
2975016	100	34 x 180	30	237.00

100 ml Cylinder is marked at 50 ml and 100 ml
50 ml Cylinders is marked at 50 ml

2981 - Cylinders, Graduated, Single Metric Scale, with Penny Head Interchangeable Stopper with Hexagonal Base, Class A, with Certificate

- Complies with IS 878, ISO / DIN 4788
- 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
- Solid glass stopper

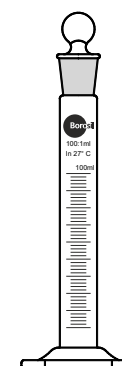
Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
2981005	5	0.1	0.05	10 / 15	5	675.00
2981006	10	0.2	0.10	10 / 15	5	735.00
2981009	25	0.5	0.25	14 / 15	10	846.00
2981012	50	1.0	0.50	14 / 15	10	961.00
2981016	100	1.0	0.50	19 / 20	10	1125.00
2981021	250	2.0	1.00	24 / 25	5	1771.00
2981024	500	5.0	2.50	24 / 25	5	2270.00
2981029	1000	10.0	5.00	34 / 25	4	2784.00
2981030	2000	20.0	10.0	34 / 25	4	4423.00

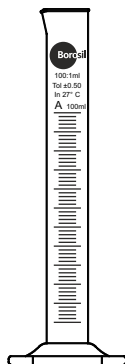


2982 - Cylinders, Graduated, Single Metric Scale, with Penny Head Interchangeable Stopper with Hexagonal base, Class B

- Complies with IS 878, ISO / DIN 4788
- Graduations in Amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Solid glass stopper

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
2982005	5	0.1	0.1	10 / 15	5	357.00
2982006	10	0.2	0.2	10 / 15	5	380.00
2982009	25	0.5	0.5	14 / 15	10	421.00
2982012	50	1.0	1.0	14 / 15	10	479.00
2982016	100	1.0	1.0	19 / 20	10	584.00
2982021	250	2.0	2.0	24 / 25	10	988.00
2982024	500	5.0	5.0	24 / 25	5	1377.00
2982029	1000	10.0	10.0	34 / 25	4	1986.00
2982030	2000	20.0	20.0	34 / 25	4	3436.00



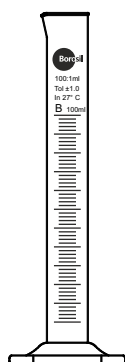


3021 - Cylinders, Graduated, Single Metric Scale, with Pour Out, with Hexagonal Base, Class A, with Certificate

- Complies with IS 878, ISO / DIN 4788
- 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

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
3021005	5	0.1	0.05	5	405.00
3021006	10	0.2	0.1	5	463.00
3021008	20*	1.0	0.25	10	590.00
3021009	25	0.5	0.25	10	531.00
3021012	50	1.0	0.5	10	642.00
3021016	100	1.0	0.5	10	725.00
3021018	150*	2.0	1.0	5	972.00
3021021	250	2.0	1.0	10	1077.00
3021024	500	5.0	2.5	5	1503.00
3021029	1000	10.0	5.0	4	1839.00
3021030	2000	20.0	10.0	4	3574.00

*20 & 150 ml Not covered in any standards.



3022 - Cylinders, Graduated, Single Metric Scale, with Pour out, with Hexagonal Base, Class B

- Complies with IS 878, ISO / DIN 4788
- Graduations in Amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
3022005	5	0.1	0.1	5	221.00
3022006	10	0.2	0.2	5	258.00
3022009	25	0.5	0.5	10	305.00
3022012	50	1.0	1.0	10	332.00
3022016	100	1.0	1.0	10	380.00
3022018	150*	2.0	2.0	5	516.00
3022021	250	2.0	2.0	10	700.00
3022024	500	5.0	5.0	5	915.00
3022029	1000	10.0	10.0	4	1388.00
3022030	2000	20.0	20.0	4	2665.00

*150 Not covered in any standards.

NABL
CERTIFIED

2010 - Cylinders, Graduated, Single Metric Scale, with Pour Out, with Hexagonal Base, Class A, with Certificate, NABL Certified

- Complies with IS 878, ISO / DIN 4788

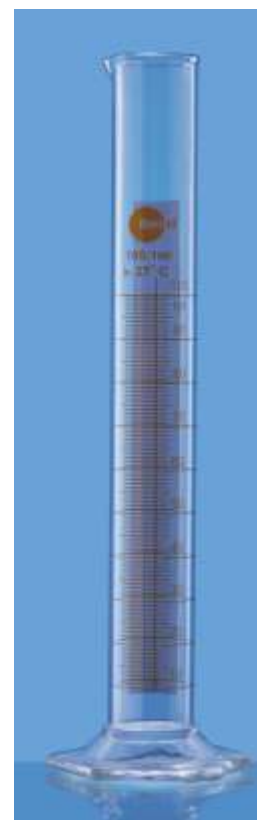
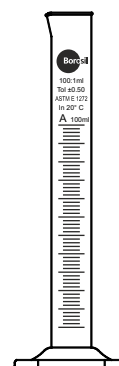
Product Code	Capacity ml	Graduation Interval	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
2010005	5	0.1	0.05	1	866.00
2010006	10	0.2	0.1	1	956.00
2010009	25	0.5	0.25	1	1119.00
2010012	50	1.0	0.5	1	1330.00
2010016	100	1.0	0.5	1	1510.00
2010018	150*	2.0	1.0	1	2005.00
2010021	250	2.0	1.0	1	2285.00
2010024	500	5.0	2.5	1	3119.00
2010029	1000	10.0	5.0	1	3847.00
2010030	2000	20.0	10.0	1	7414.00

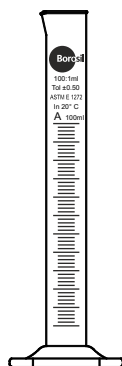
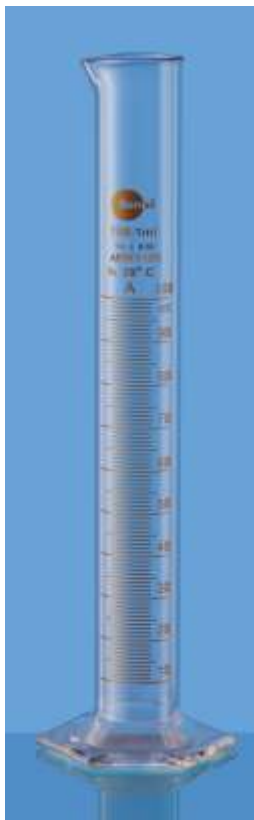


3024 - Cylinders, Single Metric Scale, with Pour Out, Schelbach type, with Hexagonal Base, Class B

- Complies with IS 878, ISO / DIN 4788
- Graduations in Amber enamel
- Sturdy hexagonal base prevents roll-over and ensures greater stability
- Proper visibility to read the meniscus

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
3024012	50	1.0	1.0	5	510.00
3024016	100	1.0	1.0	5	590.00

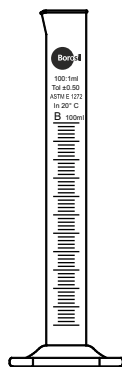




3026 - Cylinders, Graduated, Single Metric Scale, with Pour Out, with Hexagonal Base, Accuracy as per ASTM, Class A with Certificate (USP)

- Complies with ASTM E 1272
- Calibrated as per Class A tolerances required by the United States Pharmacopoeia (USP) that are tighter than those of ISO / DIN standards
- Each cylinder is engraved with a unique serial number, and comes with a Certificate of Calibration traceable to national standards
- Graduations in Amber enamel
- Manufactured with chemically resistant 3.3 borosilicate glass
- Sturdy hexagonal base prevents roll-over and ensures greater stability

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
3026005	5	0.1	0.05	5	465.00
3026006	10	0.2	0.10	5	535.00
3026009	25	0.5	0.17	5	610.00
3026012	50	1.0	0.25	5	740.00
3026016	100	1.0	0.50	5	835.00
3026021	250	2.0	1.00	5	1215.00
3026024	500	5.0	2.00	4	1600.00
3026029	1000	10.0	3.00	4	1970.00
3026030	2000	20.0	6.00	4	3699.00



3027 - Cylinders, Graduated, Single Metric Scale Pour Out with Hexagonal Base, Accuracy as per ASTM, Class B (USP)

- Complies with ASTM E 1272
- Calibrated as per Class B tolerances required by the United States Pharmacopoeia (USP) that are tighter than those of ISO / DIN standards
- Graduations in Amber enamel
- Manufactured with chemically resistant 3.3 borosilicate glass
- Sturdy hexagonal base prevents roll-over and ensures greater stability

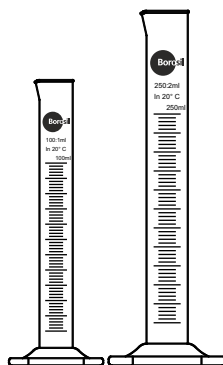
Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
3027005	5	0.1	0.10	5	275.00
3027006	10	0.2	0.20	5	315.00
3027009	25	0.5	0.34	10	373.00
3027012	50	1	0.50	10	421.00
3027016	100	1	1.00	10	463.00
3027021	250	2	2.00	10	809.00
3027024	500	5	4.00	5	1009.00
3027029	1000	10	6.00	4	1497.00
3027030	2000	20	12.00	4	2775.00

These cylinders are suitable to use as per USP tolerance for pharma industry.

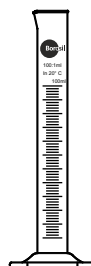
3032 - Tapped Density Cylinder, As Per USP 616

- Used in tapped density apparatus to measure bulk density of powders

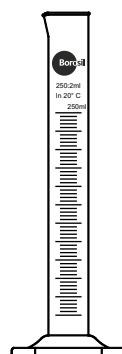
Product Code	Capacity (Set) ml	Quantity Per Case (Set)	Price / Piece ₹
3032041	100 & 250	1	2235.00

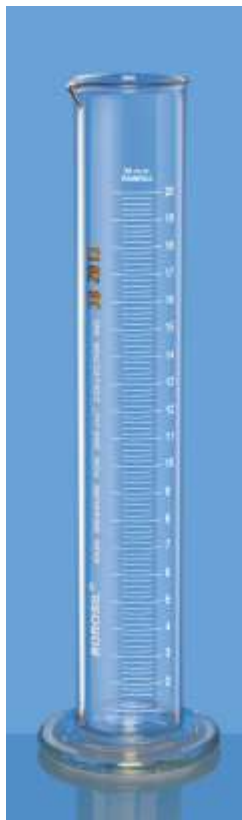
**3033 - Tapped Density Cylinder, As Per USP 616**

Product Code	Capacity (Set) ml	Quantity Per Case (Set)	Price / Piece ₹
3033016	100	2	930.00

**3034 - Tapped Density Cylinder, As Per USP 616**

Product Code	Capacity (Set) ml	Quantity Per Case (Set)	Price / Piece ₹
3034021	250	2	1160.00





3070 - Cylinders, Rain Measure, Metric Scale, Graduated, With Round Base

- Complies with IS 4849
- Manufactures with chemically resistance 3.3 borosilicate glass
- Graduation in white enamel
- The cylinders are graduated to indicate rainfall in mm when used with appropriate rain collector

Product Code	Size mm	Used For Collector Area cm ²	Graduation Interval mm	Tolerance \pm mm	Quantity Per Case	Price / Piece ₹
3070096	20	200	0.2	0.05	5	1190.00
3070098	20	100	0.2	0.10	10	1395.00

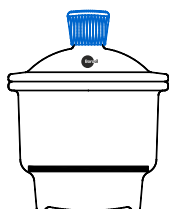
GRADUATED WARE



- Range includes all types of Burettes, Pipettes, Measuring Cylinders and Volumetric Flasks
- Calibrated with automated laser controlled German machines
- Calibration as per ISO / DIN / ASTM standards
- Available in Class “A” and Class “B” accuracy levels
- Available as Individual & Batch certified
- Inhouse world class NABL accreditation Laboratory

Dessicators

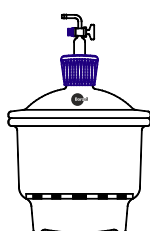
Borosil brand Desiccators are equipped with bodies and covers that have great strength and utility. The body is designed with a streamlined contour that facilitates easy cleaning of the used desiccant. Any desiccant such as sulphuric acid, phosphoric pentoxide, calcium chloride or silica gel may be used 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 - Desiccators, with Cover and Porcelain Plate, Plastic Knob

- Complies with IS 6128
- Robust Desiccator base and cover made of borosilicate glass
- 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	Approx ID Ground Flange mm	Quantity Per Case	Price / Piece ₹
3082041	100	1	5995.00
3082042	150	1	6975.00
3082043	200	1	9750.00
3082044	250	1	12450.00
3082045	300	1	17175.00



3083 - Desiccators, Vacuum, Stopcock with PTFE Spindle, and Porcelain Plate

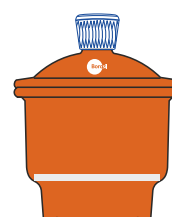
- Complies with IS 6128
- Designed for use under vacuum
- Sturdy construction of borosilicate glass
- Ground glass flanges
- Plates are positioned on an internal ledge within the base
- Comes with PTFE stopcock at the top
- Generally used for drying of moist products, and for storage of moisture-sensitive substances

Product Code	Approx ID Ground Flange mm	Quantity Per Case	Price / Piece ₹
3083041	100	1	9150.00
3083042	150	1	13750.00
3083043	200	1	15450.00
3083044	250	1	21450.00
3083045	300	1	26950.00

3084 - Desiccators, with Cover and Porcelain Plate, Plastic Knob, **Amber**

- Complies with IS 6128
- Robust Desiccator base and cover made of borosilicate glass
- 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

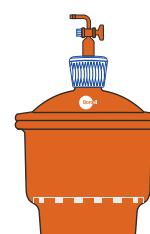
Product Code	Approx ID Ground Flange mm	Quantity Per Case	Price / Piece ₹
3084041	100	1	7995.00
3084042	150	1	9150.00
3084043	200	1	11750.00
3084044	250	1	14950.00
3084045	300	1	23250.00



3085 - Desiccators, Vacuum, stopcock with PTFE spindle and Porcelain plate, **Amber**

- Complies with IS 6128
- Designed for use under vacuum
- Sturdy construction of borosilicate glass
- Ground glass flanges
- Plates are positioned on an internal ledge within the base
- Comes with PTFE stopcock at the top
- Generally used for drying of moist products, and for storage of moisture sensitive substances

Product Code	Approx ID Ground Flange mm	Quantity Per Case	Price / Piece ₹
3085041	100	1	14450.00
3085042	150	1	18250.00
3085043	200	1	19950.00
3085044	250	1	28750.00
3085045	300	1	32250.00



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.

3140 - Dishes, Crystallizing

- Reinforced and fire-polished rims reduce chipping
- Large labelling field for easy marking
- Very high chemical resistance
- High resistance to thermal shocks

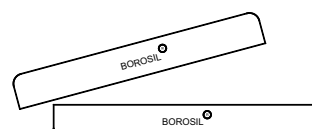
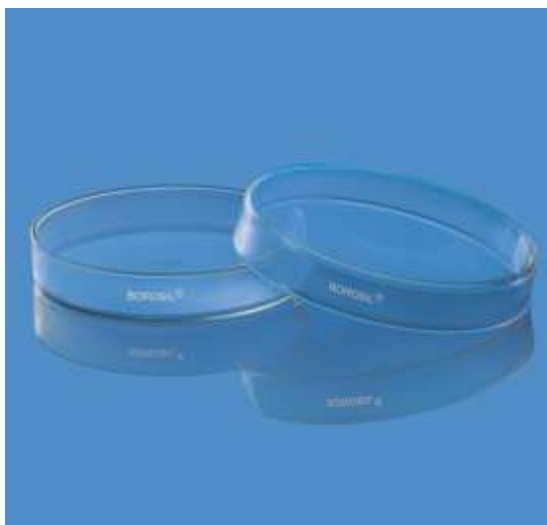
Product Code	Approx O.D. x Height mm	Approx Capacity ml	Quantity Per Case	Price / Piece ₹
3140077	100 x 50	330	10	385.00
3140081	150 x 75	4100	10	665.00
3140086	190 x 100	2500	4	1108.00

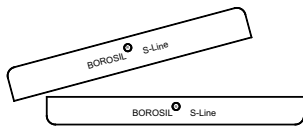
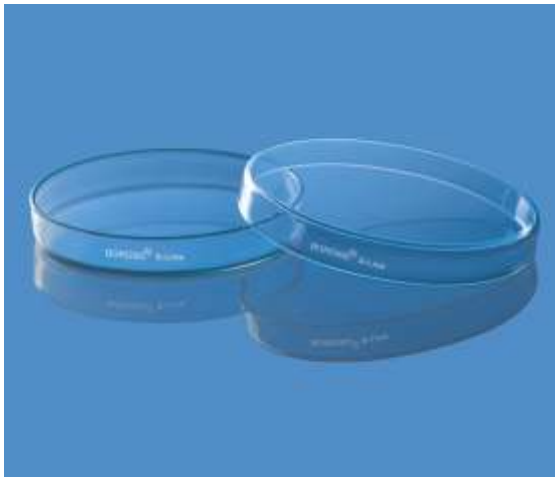


3160 - Dishes, Culture, Petri

- Complies with IS 2626
- These Dishes are clear and withstand repeated sterilisation (wet or dry)
- Made of 3.3 borosilicate glass using a special manufacturing process
- Beaded edges impart greater mechanical strength
- Ideal for use in routine work
- Specially formed to ensure even wall thickness and consistent optical performance

Product Code	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
3160065	50 x 17	100	160.00
3160072	80 x 17	100	197.00
3160077	100 x 17	100	235.00
3160081	150 x 20	40	585.00
3160087	200 x 20	10	1265.00





3165 - Dishes, Culture Petri, Borosil S-Line

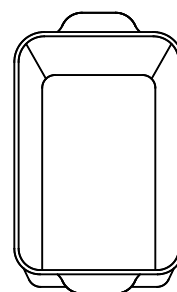
- The inner surface of these Dishes has a very close flatness tolerance
- The accuracy of many biological assays depends on the flatness of the inside base of the Petri dish
- Made of soda lime glass ensuring that the inner surface of the top and base are absolutely flat
- These Dishes have high clarity and are free of bubbles
- Ideal for use in routine work

Product Code	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
3165065	50 x 12	100	60.00
3165072	80 x 15	100	72.00
3165075	90 x 17	100	73.00
3165077	100 x 15	100	75.00
3165A77	100 x 20	100	145.00
3165081	150 x 25	40	175.00
3165087	200 x 30	10	375.00

3170 - Trays, Drying, Heavy Wall

- The trays withstand hot air or steam sterilization
- Facilitates paper chromatography
- Dimensions are approximate, representing the inside length x width x height in mm

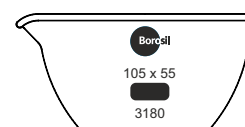
Product Code	Approx Dimension mm	Approx Capacity ml	Quantity Per Case	Price / Piece ₹
3170044	320 x 180 x 51	1500	5	499.00
3170043	350 x 200 x 58	2400	5	695.00
3170042	386 x 217 x 63	3000	5	970.00
3170041	404 x 257 x 61	3500	5	1165.00



3180 - Dishes, Evaporating, Flat Bottom, With Pour Out

- Made of 3.3 borosilicate glass
- Very high chemical resistance
- High resistance to thermal shocks
- Designed with a spout to facilitate clean pouring
- Withstand to repeated sterilisation (Wet or dry)
- Beaded edge give greater mechanical strength
- Ideal for use in routine work

Product Code	Approx O.D. x Height mm	Approx Capacity ml	Quantity Per Case	Price / Piece ₹
3180072	80 x 45	165	10	325.00
3180078	105 x 55	290	10	465.00
3180081	150 x 80	855	10	865.00
3180087	200 x 100	1790	8	1599.00



Distilling Apparatus

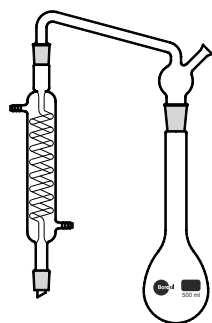


Most of the distillation equipment required in an average laboratory can be constructed using standard Borosil components. Distillation assemblies for specific applications are available as complete units, as listed herein.

3340 - Distilling Apparatus, Ammonia, with Graham Condenser, 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

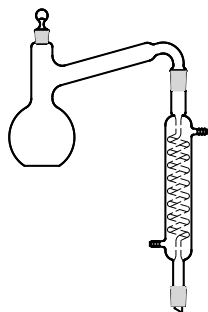
Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
3340024	500	2 Set	2675.00



3360 - Distilling Apparatus, with Graham Condenser, Interchangeable Joints, Interchangeable 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	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
3360024	500	200	19 /26	2 Set	2680.00

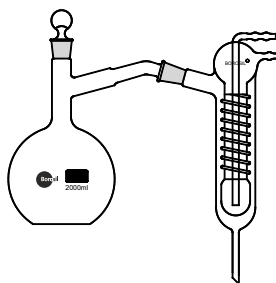




3380 - Distilling Apparatus, with Friedrichs Condenser, Interchangeable Joint and Stopper

- 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
- Comes with Friedrich's Spiral Condenser for higher distillation rates

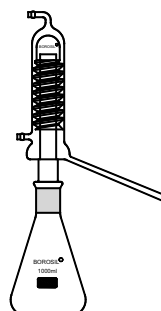
Product Code	Capacity ml	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
3380030	2000	24 / 29	1 Set	3315.00



3440 - Distilling Apparatus, Compact with Friedrichs Condenser, Interchangeable Joint

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

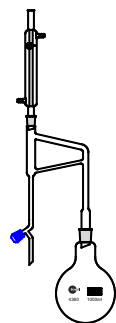
Product Code	Capacity ml	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
3440029	1000	34 / 35	2 Set	3220.00



3450 - Essential Oil Determination Apparatus (Clevenger Appratus), as per IS 1797, for Oil Heavier Than Water

- This apparatus is ideal for estimation of volatile oil that is heavier than water
- Comes with a 5 ml Receiver with stopcock, an Oil Separator Tube, a condenser and 1000 ml flask

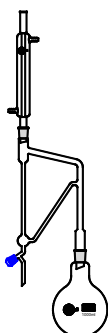
Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
3450029	1000*	1Set	6165.00
3450030	2000	1Set	Price on request
3450033	5000	1Set	Price on request
3450038	10000	1Set	Price on request
3450040	20000	1Set	Price on request



3451 - Essential Oil Determination Apparatus (Clevenger Appratus), for Oil Lighter Than Water

- Ideal for estimation of volatile oil that is lighter than water
- Comes 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*	1Set	6165.00
3451030	2000	1Set	Price on request
3451033	5000	1Set	Price on request
3451038	10000	1Set	Price on request
3451040	20000	1Set	Price on request

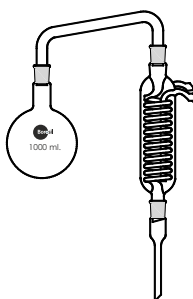




3452 - Alcohol Distillation Unit

- 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	7665.00

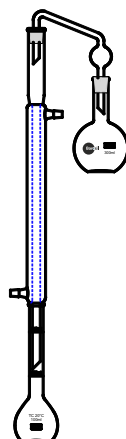


3454 - R M Value Apparatus

- 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	1360.00
3454A22*	300	1	1360.00

* As per IS 548 Part I Standard



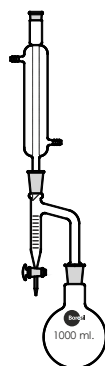
PRICES EXCLUSIVE OF TAXES

3602 - Distilling Apparatus, Dean And Stark, Moisture Test, (as per I. P. Specifications)

- 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 intervals

Product Code	Capacity of Receiver ml	Quantity Per Case	Price / Piece ₹
3602006	10	2 Set	2205.00

Consists of receiver 10 ml graduated with 19 / 26 outer joint and 24 / 29 inner joint, round bottom flask 1000 ml with 24 / 29 outer joint and Liebig condenser 200 mm with 19 / 26 joint. The 10 ml receiver is graduated from 1 ml to 10 ml in 0.1 ml intervals.

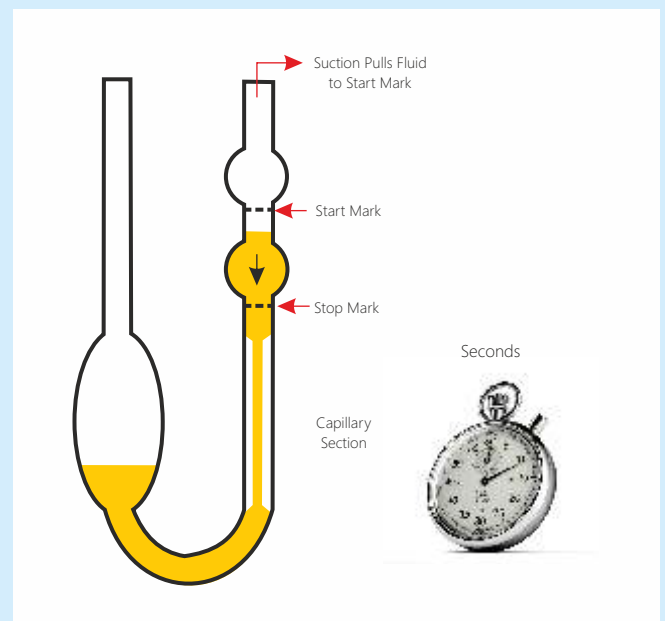


Viscometer



The viscosity of substance is the shearing resistance of a liquid film which separates two horizontal plates, one of which is being moved across the other. The absolute viscosity of a substance is the force in dynes which will move one square centimeter of a plane surface with a speed of one centimeter per second relative to another parallel plane surface from which it is separated by a layer of the substance one centimeter thick. This may be expressed by the following formula.

$$\text{Viscosity} = \frac{\text{force} \times \text{film thickness}}{\text{area of plate} \times \text{velocity}}$$





Easy Ordering

Viscometer Type	Temperature	Type of Viscometer		Product Code				Size as per Standard		
College Pattern	1.2.3	C	P	3	5	0	0	0	0	0
U Tube	1.2.3	U	D	3	5	0	1	0	0	A
U Tube - Reverse Flow	1.2.3	U	R	3	5	0	2	0	0	1
Cannon-Fenske, Routine Type	1.2.3	C	D	3	5	0	3	0	2	5
Cannon-Fenske, Reverse flow	1.2.3	C	R	3	5	0	4	3	0	0



1



2

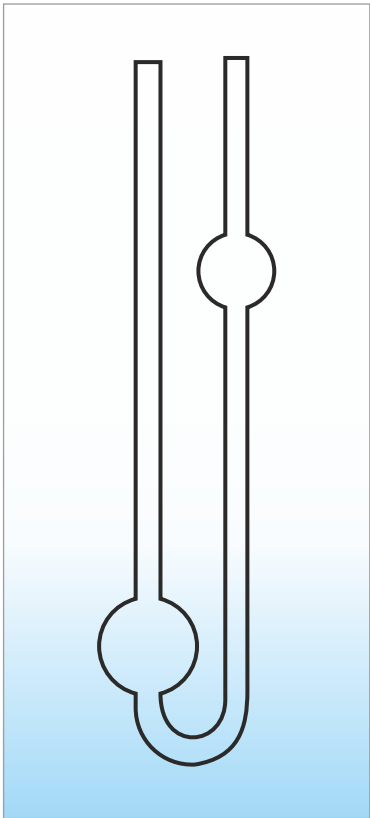


3

3500 - Viscometer College Pattern, Oswal 80 - 100 Seconds, Uncertified

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
3500	O	0.001	0.3 - 3	10	1700.00

- Supplied without Certificate





Viscometer 'U'-Tube

- Suitable for measuring transparent liquid.
- Type BS/U.
- Nominal overall length 300 mm. approx.

3501 - Viscometer U-Tube - Calibrated & Certified at 40°C

Calibrated at
40°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT1UD3501000	O	0.001	0.3 - 3	1	5000.00
BT1UD350100A	A	0.003	1-5	1	5000.00
BT1UD350100B	B	0.01	2 - 15	1	5000.00
BT1UD350100C	C	0.03	6 - 45	1	5000.00
BT1UD350100D	D	0.1	20 - 120	1	5000.00
BT1UD350100E	E	0.3	60 - 500	1	5000.00
BT1UD350100F	F	1.0	200 - 1000	1	5000.00
BT1UD350100G	G	3.0	600 - 4000	1	5000.00
BT1UD350100H	H	10	2000 - 15000	1	5000.00



Calibrated at
100°C

3501 - Viscometer U-Tube - Calibrated & Certified at 100°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT2UD3501000	O	0.001	0.3 - 3	1	5000.00
BT2UD350100A	A	0.003	1 - 5	1	5000.00
BT2UD350100B	B	0.01	2 - 15	1	5000.00
BT2UD350100C	C	0.03	6 - 45	1	5000.00
BT2UD350100D	D	0.1	20 - 120	1	5000.00
BT2UD350100E	E	0.3	60-500	1	5000.00
BT2UD350100F	F	1.0	200 - 1000	1	5000.00
BT2UD350100G	G	3.0	600 - 4000	1	5000.00
BT2UD350100H	H	10	2000 - 15000	1	5000.00

Calibrated at
40°C & 100°C

3501 - Viscometer U-Tube - Calibrated & Certified at 40°C & 100°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT3UD3501000	O	0.001	0.3 - 3	1	5500.00
BT3UD350100A	A	0.003	1 - 5	1	5500.00
BT3UD350100B	B	0.01	2 - 15	1	5500.00
BT3UD350100C	C	0.03	6 - 45	1	5500.00
BT3UD350100D	D	0.1	20 - 120	1	5500.00
BT3UD350100E	E	0.3	60-500	1	5500.00
BT3UD350100F	F	1.0	200 - 1000	1	5500.00
BT3UD350100G	G	3.0	600 - 4000	1	5500.00
BT3UD350100H	H	10	2000 - 15000	1	5500.00

Viscometer 'U'-Tube Reverse Flow

- Suitable for measuring opaque liquid
- Type BS/IP/RF
- Nominal overall length 275 mm approx

Viscometer



3502 - Viscometer U-Tube Reverse Flow - Calibrated & Certified at 40°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT1UR3502001	1	0.003	1.18	1	5000.00
BT1UR3502002	2	0.01	2.0	1	5000.00
BT1UR3502003	3	0.03	6.0	1	5000.00
BT1UR3502004	4	0.1	20	1	5000.00
BT1UR3502005	5	0.3	60	1	5000.00
BT1UR3502006	6	1.0	200	1	5000.00
BT1UR3502007	7	3.0	600	1	5000.00
BT1UR3502008	8	10.0	2000	1	5000.00

Calibrated at
40°C

3502 - Viscometer U-Tube - Calibrated & Certified at 100°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT2UR3502001	1	0.003	1.18	1	5000.00
BT2UR3502002	2	0.01	2.0	1	5000.00
BT2UR3502003	3	0.03	6.0	1	5000.00
BT2UR3502004	4	0.1	20	1	5000.00
BT2UR3502005	5	0.3	60	1	5000.00
BT2UR3502006	6	1.0	200	1	5000.00
BT2UR3502007	7	3.0	600	1	5000.00
BT2UR3502008	8	10.0	2000	1	5000.00

Calibrated at
100°C

3502 - Viscometer U-Tube - Calibrated & Certified at 40°C & 100°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT3UR3502001	1	0.003	1.18	1	5500.00
BT3UR3502002	2	0.01	2.0	1	5500.00
BT3UR3502003	3	0.03	6.0	1	5500.00
BT3UR3502004	4	0.1	20	1	5500.00
BT3UR3502005	5	0.3	60	1	5500.00
BT3UR3502006	6	1.0	200	1	5500.00
BT3UR3502007	7	3.0	600	1	5500.00
BT3UR3502008	8	10.0	2000	1	5500.00

Calibrated at
40°C & 100°C





Viscometer, Cannon-Fenske, Direct Flow, Routine Type

- Suitable for measuring transparent liquid
- Type BS/IP/CF
- Nominal overall length 255 mm approx

3503 - Viscometer Cannon-Fenske, Direct Flow, Routine Type - **Calibrated & Certified at 40°C**

Calibrated at
40°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT1CD3503025	25	0.002	0.4 - 1.6	1	5000.00
BT1CD3503050	50	0.004	0.8 - 3.2	1	5000.00
BT1CD3503075	75	0.008	1.6 - 8	1	5000.00
BT1CD3503100	100	0.015	3 - 12	1	5000.00
BT1CD3503150	150	0.035	7 - 28	1	5000.00
BT1CD3503200	200	0.1	20 - 80	1	5000.00
BT1CD3503300	300	0.25	50 - 200	1	5000.00
BT1CD3503350	350	0.5	10 - 400	1	5000.00
BT1CD3503400	400	1.2	240 - 960	1	5000.00
BT1CD3503450	450	2.5	500 - 2000	1	5000.00
BT1CD3503500	500	8	1600 - 6400	1	5000.00
BT1CD3503600	600	20	4000 - 16000	1	5000.00



Calibrated at
100°C

3503 - Viscometer Cannon-Fenske, Direct Flow, Routine Type - **Calibrated & Certified at 100°C**

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT2CD3503025	25	0.002	0.4 - 1.6	1	5000.00
BT2CD3503050	50	0.004	0.8 - 3.2	1	5000.00
BT2CD3503075	75	0.008	1.6 - 8	1	5000.00
BT2CD3503100	100	0.015	3 - 12	1	5000.00
BT2CD3503150	150	0.035	7 - 28	1	5000.00
BT2CD3503200	200	0.1	20 - 80	1	5000.00
BT2CD3503300	300	0.25	50 - 200	1	5000.00
BT2CD3503350	350	0.5	10 - 400	1	5000.00
BT2CD3503400	400	1.2	240 - 960	1	5000.00
BT2CD3503450	450	2.5	500 - 2000	1	5000.00
BT2CD3503500	500	8	1600 - 6400	1	5000.00
BT2CD3503600	600	20	4000 - 16000	1	5000.00

3503 - Viscometer Cannon-Fenske, Direct Flow, Routine Type - **Calibrated & Certified at 40°C & 100°C**

Calibrated at
40°C & 100°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT3CD3503025	25	0.002	0.4 - 1.6	1	5500.00
BT3CD3503050	50	0.004	0.8 - 3.2	1	5500.00
BT3CD3503075	75	0.008	1.6 - 8	1	5500.00
BT3CD3503100	100	0.015	3 - 12	1	5500.00
BT3CD3503150	150	0.035	7 - 28	1	5500.00
BT3CD3503200	200	0.1	20 - 80	1	5500.00
BT3CD3503300	300	0.25	50 - 200	1	5500.00
BT3CD3503350	350	0.5	100 - 400	1	5500.00
BT3CD3503400	400	1.2	240 - 960	1	5500.00
BT3CD3503450	450	2.5	500 - 2000	1	5500.00
BT3CD3503500	500	8	1600 - 6400	1	5500.00
BT3CD3503600	600	20	4000 - 16000	1	5500.00

Viscometer Cannon-Fenske, Reverse flow

- Suitable for measuring transparent and opaque liquid
- Type ASTM-D-445 & 2575
- Nominal overall length 295 mm. approx

Viscometer



3504 - Viscometer Cannon-Fenske, Reverse flow - Calibrated & Certified at 40°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT1CR3504025	25	0.002	0.4 - 2	1	5000.00
BT1CR3504050	50	0.004	0.8 - 4	1	5000.00
BT1CR3504075	75	0.008	1.6 - 8	1	5000.00
BT1CR3504100	100	0.015	3 - 15	1	5000.00
BT1CR3504150	150	0.035	7 - 35	1	5000.00
BT1CR3504200	200	0.1	20 - 100	1	5000.00
BT1CR3504300	300	0.25	50 - 200	1	5000.00
BT1CR3504350	350	0.5	100 - 500	1	5000.00
BT1CR3504400	400	1.2	240 - 1200	1	5000.00
BT1CR3504450	450	2.5	500 - 2500	1	5000.00
BT1CR3504500	500	8	1600 - 8000	1	5000.00
BT1CR3504600	600	20	4000 - 20000	1	5000.00

Calibrated at
40°C

3504 - Viscometer Cannon-Fenske, Reverse flow - Calibrated & Certified at 100°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT2CR3504025	25	0.002	0.4 - 2	1	5000.00
BT2CR3504050	50	0.004	0.8 - 4	1	5000.00
BT2CR3504075	75	0.008	1.6 - 8	1	5000.00
BT2CR3504100	100	0.015	3 - 15	1	5000.00
BT2CR3504150	150	0.035	7 - 35	1	5000.00
BT2CR3504200	200	0.1	20 - 100	1	5000.00
BT2CR3504300	300	0.25	50 - 200	1	5000.00
BT2CR3504350	350	0.5	100 - 500	1	5000.00
BT2CR3504400	400	1.2	240 - 1200	1	5000.00
BT2CR3504450	450	2.5	500 - 2500	1	5000.00
BT2CR3504500	500	8	1600 - 8000	1	5000.00
BT2CR3504600	600	20	4000 - 20000	1	5000.00

Calibrated at
100°C

3504 - Viscometer Cannon-Fenske, Reverse flow - Calibrated & Certified at 40°C & 100°C

Product Code	Size	Nominal Constant	Viscosity Range (CS)	Quantity Per Case	Price / Piece ₹
BT3CR3504025	25	0.002	0.4 - 2	1	5500.00
BT3CR3504050	50	0.004	0.8 - 4	1	5500.00
BT3CR3504075	75	0.008	1.6 - 8	1	5500.00
BT3CR3504100	100	0.015	3 - 15	1	5500.00
BT3CR3504150	150	0.035	7 - 35	1	5500.00
BT3CR3504200	200	0.1	20 - 100	1	5500.00
BT3CR3504300	300	0.25	50 - 200	1	5500.00
BT3CR3504350	350	0.5	100 - 500	1	5500.00
BT3CR3504400	400	1.2	240 - 1200	1	5500.00
BT3CR3504450	450	2.5	500 - 2500	1	5500.00
BT3CR3504500	500	8	1600 - 8000	1	5500.00
BT3CR3504600	600	20	4000 - 20000	1	5500.00

Calibrated at
40°C & 100°C



Extractors



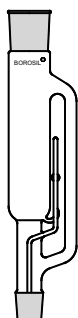
Liquid Solid Extraction involves the elution of a solid sample with pure solvent vapour. The sample is held in the Extractor body either directly or in a thimble. The siphoning type of Soxhlet Extractor finds the widest application in laboratory work.

Borosil Soxhlet Extraction Apparatus is available in six sizes. The component parts of the apparatus are provided with interchangeable joints for greater flexibility.

3740 - Extractors, Soxhlet, Interchangeable Joint

- Complies with IS 10640
- Made of borosilicate glass
- 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

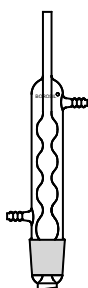
Product Code	Capacity ml	Interchangeable Joints		Quantity Per Case	Price / Piece ₹
		Socket (Top)	Cone (Bottom)		
3740013	60	34 / 35	24 / 29	5	660.00
3740016	100	40 / 38	24 / 29	5	970.00
3740020	200	50 / 42	24 / 29	5	1086.00



3741 - Condensers, Allihn Only For Extraction Apparatus

- Made of borosilicate glass
- 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	Quantity Per Case	Price / Piece ₹
		Cone (Bottom)		
3741013	Small	34 / 35	5	538.00
3741016	Medium	40 / 38	5	670.00
3741020	Large	50 / 42	5	970.00



3840 - Extraction Apparatus Soxhlet Complete With Allihn Condenser, Interchangeable Joint

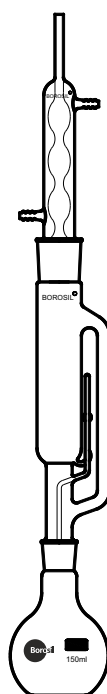
- Complies with IS 10640
- Used for separation of the extract from the liquid or solid
- Greater surface area than the Liebig Condenser owing to a series of bulbs, resulting in higher cooling capacity
- This method enables effective separation, with relatively small quantities of solvent
- Ideal for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

Product Code	Capacity ml	Flask Size	Quantity Per Case Set	Price / Piece ₹
3840013	60*	150	1	1370.00
3840016	100*	250	1	1596.00
3840020	200*	500	1	2626.00
3840024	500**#	2000	1	10155.00
3840029	1000**#	3000	1	15175.00
3840030	2000**#	5000	1	25625.00

*For flask refer Cat No. 4100

**Extractor Supplied are supplied with double surface condenser for higher cooling capacity.

Spares available on request.



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.

4060 - Flasks, Boiling, Flat Bottom

- 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 with an ordinary pencil

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	84.00
4060012	50	51 x 90	26	50	90.00
4060016	100	64 x 105	26	80	106.00
4060018	150**	75 x 132	28	10	111.00
4060021	250	85 x 140	34	80	120.00
4060022	*300**	88 x 160	24	20	166.00
4060024	500	105 x 165	34	40	195.00
4060029	1000	131 x 190	42	20	288.00
4060030	2000	167 x 237	50	2	555.00
4060031	3000**	186 x 300	50	4	1525.00
4060033	5000**	229 x 320	57	2	2495.00
4060034	6000	250 x 340	65	1	3605.00
4060038	10000	279 x 400	65	1	5820.00
4060040	20000**	350 x 495	75	1	9695.00

* Suitable for use in Polenske Apparatus

** Not covered in standards



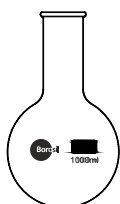
4100 - Flasks, Boiling, Flat Bottom, Short Neck, Interchangeable Joint

- Complies with IS 1381 (Part II), ISO 4797
- Uniform wall thickness distribution makes these Flasks ideal for heating
- All sizes have a durable matt-finished enamelled area for marking with an ordinary pencil
- 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	155.00
4100021	250	24 / 29	130	5	165.00
4100024	500	24 / 29	160	5	250.00
4100029	1000*	34 / 35	288	2	345.00
4100030	2000*	34 / 35	321	2	640.00
4100031	3000*	34 / 35	345	2	1750.00
4100033	5000*	34 / 35	381	2	2840.00

*These are specific flasks with long neck 34/35 joint used in jewellery for heating application.





4260 - Flasks, Boiling, Round Bottom

- 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 with an ordinary pencil

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	78.00
4260012	50	51 x 95	26	70	90.00
4260016	100	65 x 110	26	50	99.00
4260018	150**	75 x 137	28	10	111.00
4260021	250	85 x 143	34	80	111.00
4260024	500**	105 x 168	34	40	190.00
4260029	1000	131 x 200	42	20	265.00
4260030	2000	166 x 240	51	2	582.00
4260031	3000	190 x 305	50	2	1496.00
4260033	5000**	225 x 350	60	2	2465.00
4260034	6000	236 x 330	65	1	3220.00
4260038	10000	279 x 380	65	1	5155.00
4260040	20000**	350 x 505	87	1	9475.00

** Not covered in standards

4265 - E - Flask Without Side Cut For Dissolution Apparatus as per USP, with Certificate

- Vessels confirms to all requirements of U.S.P
- 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

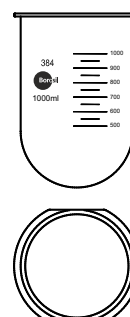
Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
4265029	1000	131 x 173	6	2186.00



4266 - L - Flask With Side Cut For Dissolution Apparatus, as per USP with Certificate

- These vessels conform to all the requirements of USP
- Smooth hemispherical base with no flaws or defects, straight sides and a flat flange
- Two side-cuts at the 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 ₹
4266029	1000	124 X 173	6	2337.00

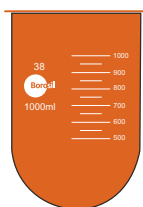




4267 - E - Flask For Dissolution Apparatus as per USP, Amber, with Certificate

- These vessels conform to all the requirements of USP
- Smooth hemispherical base with no flaws or defects, straight sides and a flat flange
- Graduated in intervals of 50 ml
- Ideal 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

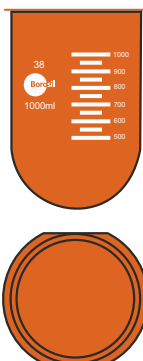
Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
4267029	1000	131 x 173	6	3940.00



4268 - L - Flask With Side Cut For Dissolution Apparatus as per USP, Amber, With Certificate

- These vessels conform to all the requirements of USP
- Smooth hemispherical base with no flaws or defects, straight sides and a flat flange
- Two side-cuts at the flange
- Graduated in intervals of 50 ml
- Ideal 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

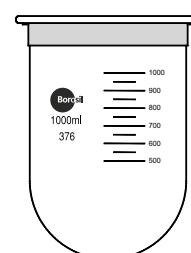
Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
4268029	1000	124 x 173	6	4327.00



4270 - D - Flasks for Dissolution Apparatus without side cut, as per USP with Certificate

- Vessels confirms to all requirements of USP
- 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

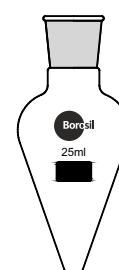
Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
4270029	1000	132 x 169	6	8040.00

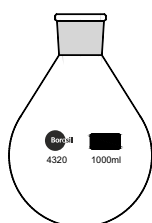


4315 - Flasks, Boiling, Pear Shaped, Short Neck, With Interchangeable Joint

- Made of 3.3 borosilicate glass
- 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	120.00
4315105	5	14 / 23	10	120.00
4315006	10	10 / 19	10	130.00
4315106	10	14 / 23	10	130.00
4315009	25	14 / 23	5	150.00
4315012	50	14 / 23	10	165.00





4320 - Flasks, Pear Shape Suitable for Rotary Evaporators with Ground Socket

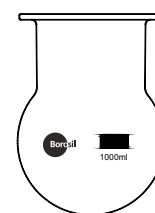
- Rota Vapour Flasks are used along with Rotary Evaporators
- Ideal for heating sensitive solvent solute combinations
- Facilitate the extraction of key components like odour, oil, drugs, natural extract and fragrance

Product Code	Capacity ml	Interchangeable Joint Size	Quantity Per Case	Price / Piece ₹
4320112	50	24 / 29	2	846.00
4320012	50	29 / 32	2	905.00
4320116	100	24 / 29	2	1360.00
4320016	100	29 / 32	2	1450.00
4320121	250	24 / 29	2	2050.00
4320021	250	29 / 32	2	2160.00
4320124	500	24 / 29	2	2345.00
4320024	500	29 / 32	2	2435.00
4320129	1000	24 / 29	2	4141.00
4320029	1000	29 / 32	2	4235.00
4320130	2000	24 / 29	2	5340.00
4320030	2000	29 / 32	2	5470.00

4330 - Flasks, (Vessels) Reaction, Wide Mouth, With Flat Flange, 100 mm ID, 150mm OD

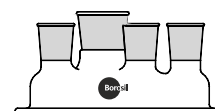
- These Flasks have a spherical body with a neck of inner diameter 4 inches (approx 100 mm)
- The top is finely ground to ensure a leak-resistant fit with the cover

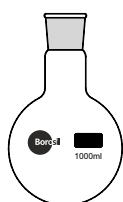
Product Code	Capacity ml	Approx Height mm	Quantity Per Case	Price / Piece ₹
4330029	1000	170	2	1445.00
4330030	2000	205	2	1970.00
4330033	5000	260	2	4325.00
4330038	10000	335	1	9130.00
4330040	20000	400	1	15705.00



4331 - Lids, For Flasks Reaction Cat No. 4330, Flat Flange and Interchangeable Joint

Product Code	Interchangeable Joint Size					Quantity Per Case	Price / Piece ₹
	Centre	Parellel	Side 5°	Side 10°	Side 15°		
4331Z97	19 / 26	19 / 26	24 / 29	19 / 26	-	2	3405.00
4331Z98	19 / 26	14 / 23	14 / 23	14 / 23	29 / 32	2	3405.00
4331Z99	29 / 32	14 / 23	14 / 23	14 / 23	29 / 32	2	3405.00





4380 - Flasks, Boiling, Round Bottom, Short Neck, With Interchangeable Joint

- Made of 3.3 borosilicate glass
- Uniform wall thickness distribution and the round - bottom shape make them ideal for heating
- Generally used in distillation and extraction processes
- Large labelling field

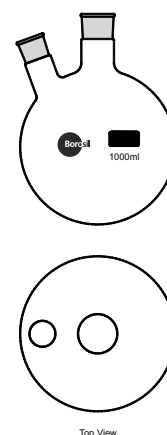
Product Code	Capacity ml	Approx Height	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
4380A05	5	60	14 / 23	10	155.00
4380A06	10	65	14 / 23	10	155.00
4380A09	25	75	14 / 23	10	145.00
4380B09	25	77	19 / 26	10	145.00
4380A12	50	95	14 / 23	5	150.00
4380B12	50	95	19 / 26	5	150.00
4380C12	50	95	24 / 29	5	150.00
4380D12	50	95	29 / 32	5	150.00
4380E12	50	95	34 / 35	5	150.00
4380A16	100	120	14 / 23	20	150.00
4380B16	100	120	19 / 26	20	150.00
4380C16	100	120	24 / 29	20	150.00
4380D16	100	120	29 / 32	20	150.00
4380E16	100	120	34 / 35	20	150.00
4380A21	250	140	14 / 23	20	192.00
4380B21	250	140	19 / 26	20	192.00
4380C21	250	140	24 / 29	20	192.00
4380D21	250	140	29 / 32	20	192.00
4380E21	250	140	34 / 35	20	192.00
4380A24	500	170	14 / 23	10	275.00
4380B24	500	170	19 / 26	10	275.00
4380C24	500	170	24 / 29	10	275.00
4380D24	500	170	29 / 32	10	275.00
4380E24	500	170	34 / 35	10	275.00
4380A29	1000	210	19 / 26	10	375.00
4380B29	1000	210	24 / 29	10	375.00
4380C29	1000	210	29 / 32	10	375.00
4380D29	1000	210	34 / 35	10	375.00
4380E29	1000	210	45 / 40	10	375.00
4380F29	1000	210	55 / 44	10	375.00
4380A30	2000	240	24 / 29	4	725.00
4380B30	2000	240	29 / 32	4	725.00
4380C30	2000	240	34 / 35	4	725.00
4380D30	2000	240	45 / 40	4	725.00
4380A31	3000	240	24 / 29	4	2055.00
4380B31	3000	265	29 / 32	4	2055.00
4380C31	3000	265	34 / 35	4	2055.00
4380D31	3000	265	45 / 40	4	2055.00
4380E31	3000	265	55 / 44	4	2055.00
4380A33	5000	300	24 / 29	2	3135.00
4380B33	5000	300	29 / 32	2	3135.00
4380C33	5000	300	34 / 35	2	3135.00
4380D33	5000	300	45 / 40	2	3135.00
4380E33	5000	300	55 / 44	2	3135.00
4380A38	10000	385	34 / 35	1	6330.00
4380B38	10000	385	55 / 44	1	6330.00
4380C38	10000	385	55 / 44	1	6330.00
4380A40	20000	435	55 / 44	1	10960.00

PRICES EXCLUSIVE OF TAXES

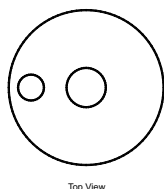
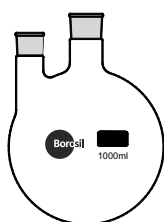
4381 - Flasks, Round Bottom, Two Necks, Centre Neck and One Angled Side Neck, With Interchangeable Joints

- 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
- One neck is centred and vertical. The side neck is inclined at an angle of 20° to the vertical neck

Product Code	Capacity ml	Interchangeable Joint Size		Quantity Per Case	Price / Piece ₹
		Centre Neck	Side Neck		
4381A16	100	19 / 26	14 / 23	4	210.00
4381B16	100	24 / 29	14 / 23	4	210.00
4381C16	100	24 / 29	19 / 26	4	210.00
4381A21	250	24 / 29	14 / 23	4	299.00
4381B21	250	24 / 29	19 / 26	4	299.00
4381A24	500	24 / 29	14 / 23	4	430.00
4381B24	500	24 / 29	19 / 26	4	430.00
4381A29	1000	24 / 29	14 / 23	2	535.00
4381B29	1000	24 / 29	19 / 26	2	535.00
4381A30	2000	24 / 29	14 / 23	2	950.00
4381B30	2000	24 / 29	19 / 26	2	950.00
4381C30	2000	34 / 35	19 / 26	2	950.00
4381A31	3000	34 / 35	19 / 26	2	2565.00
4381B31	3000	34 / 35	24 / 29	2	2565.00
4381A33	5000	34 / 35	19 / 26	1	3770.00
4381B33	5000	34 / 35	24 / 29	1	3770.00
4381A38	10000	34 / 35	24 / 29	1	6780.00
4381B38	10000	55 / 44	24 / 29	1	6780.00
4381A40	20000	55 / 44	24 / 29	1	11292.00



Top View



Top View

4382 - Flasks, Round Bottom, Two Necks, Centre Neck and One Parallel Side Neck, with interchangeable Joints

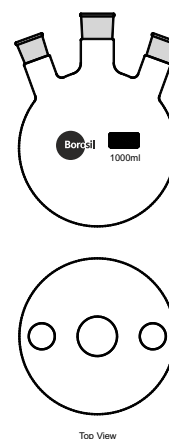
- Uniform wall thickness distribution and the round-bottom shape make them ideal for heating
- The shape facilitates uniform heating
- Accessories, thermometer, column, dropping funnels, boiling capillaries, etc., can be fitted depending upon the application
- Generally used in distillation and extraction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

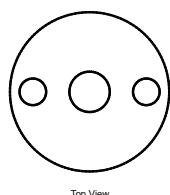
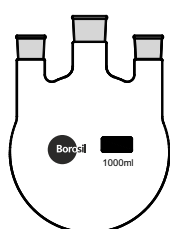
Product Code	Capacity ml	Interchangeable Joint Size		Quantity Per Case	Price / Piece ₹
		Centre Neck	Side Neck		
4382A16	100	19 / 26	14 / 23	4	210.00
4382B16	100	24 / 29	14 / 23	4	210.00
4382C16	100	24 / 29	19 / 26	4	210.00
4382A21	250	24 / 29	14 / 23	4	299.00
4382B21	250	24 / 29	19 / 26	4	299.00
4382A24	500	24 / 29	14 / 23	4	430.00
4382B24	500	24 / 29	19 / 26	4	430.00
4382A29	1000	24 / 29	14 / 23	2	535.00
4382B29	1000	24 / 29	19 / 26	2	535.00
4382A30	2000	24 / 29	14 / 23	2	950.00
4382B30	2000	24 / 29	19 / 26	2	950.00
4382C30	2000	34 / 35	19 / 26	2	950.00
4382A31	3000	34 / 35	19 / 26	2	2565.00
4382B31	3000	34 / 35	24 / 29	2	2565.00
4382A33	5000	34 / 35	19 / 26	1	3770.00
4382B33	5000	34 / 35	24 / 29	1	3770.00
4382A38	10000	34 / 35	24 / 29	1	6780.00
4382B38	10000	55 / 44	24 / 29	1	6780.00
4382A40	20000	55 / 44	24 / 29	1	11292.00

4383 - Flasks, Round Bottom, Three Necks, Centre Neck and Two Angled Side Necks, with interchangeable Joints

- 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
- The centred neck is vertical. The two side necks are 180° apart and are inclined at an angle of 20° to the vertical neck

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	291.00
4383B16	100	14 / 23	14 / 23	14 / 23	4	291.00
4383C16	100	24 / 29	14 / 23	14 / 23	4	291.00
4383D16	100	24 / 29	19 / 26	19 / 26	4	291.00
4383A21	250	19 / 26	14 / 23	14 / 23	4	396.00
4383B21	250	19 / 26	19 / 26	19 / 26	4	396.00
4383C21	250	24 / 29	14 / 23	14 / 23	4	396.00
4383D21	250	24 / 29	19 / 26	19 / 26	4	396.00
4383A24	500	19 / 26	14 / 23	14 / 23	4	591.00
4383B24	500	19 / 26	19 / 26	19 / 26	4	591.00
4383C24	500	24 / 29	14 / 23	14 / 23	4	591.00
4383D24	500	24 / 29	19 / 26	19 / 26	4	591.00
4383A29	1000	24 / 29	14 / 23	14 / 23	2	730.00
4383B29	1000	24 / 29	19 / 26	19 / 26	2	730.00
4383C29	1000	34 / 35	24 / 29	24 / 29	2	730.00
4383D29	1000	34 / 35	19 / 26	19 / 26	2	730.00
4383A30	2000	24 / 29	14 / 23	14 / 23	2	1325.00
4383B30	2000	24 / 29	19 / 26	19 / 26	2	1325.00
4383C30	2000	34 / 35	19 / 26	19 / 26	2	1325.00
4383D30	2000	34 / 35	24 / 29	24 / 29	2	1325.00
4383A31	3000	34 / 35	19 / 26	19 / 26	2	3314.00
4383B31	3000	34 / 35	24 / 29	24 / 29	2	3314.00
4383A33	5000	34 / 35	19 / 26	19 / 26	1	4676.00
4383B33	5000	34 / 35	24 / 29	24 / 29	1	4676.00
4383C33	5000	45 / 40	24 / 29	24 / 29	1	4676.00
4383A38	10000	34 / 35	19 / 26	19 / 26	1	9038.00
4383B38	10000	34 / 35	24 / 29	24 / 29	1	9038.00
4383C38	10000	45 / 40	24 / 29	24 / 29	1	9038.00
4383A40	20000	55 / 44	24 / 29	24 / 29	1	13556.00





4384 - Flask, Round Bottom, Three Necks, Centre Neck and Two Parallel Side Necks with interchangeable Joints

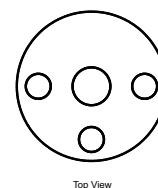
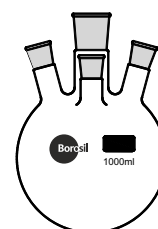
- Uniform wall thickness distribution and the round-bottom shape make them ideal for heating
- The shape facilitates uniform heating
- Accessories, thermometer, column, dropping funnels, boiling capillaries, etc., can be fitted depending upon the application
- Generally used in distillation and extraction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

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	291.00
4384B16	100	14 / 23	14 / 23	14 / 23	4	291.00
4384C16	100	24 / 29	14 / 23	14 / 23	4	291.00
4384D16	100	24 / 29	19 / 26	19 / 26	4	291.00
4384A21	250	19 / 26	14 / 23	14 / 23	4	396.00
4384B21	250	19 / 26	19 / 26	19 / 26	4	396.00
4384C21	250	24 / 29	14 / 23	14 / 23	4	396.00
4384D21	250	24 / 29	19 / 26	19 / 26	4	396.00
4384A24	500	19 / 26	14 / 23	14 / 23	4	591.00
4384B24	500	19 / 26	19 / 26	19 / 26	4	591.00
4384C24	500	24 / 29	14 / 23	14 / 23	4	591.00
4384D24	500	24 / 29	19 / 26	19 / 26	4	591.00
4384A29	1000	24 / 29	14 / 23	14 / 23	2	730.00
4384B29	1000	24 / 29	19 / 26	19 / 26	2	730.00
4384C29	1000	34 / 35	24 / 29	24 / 29	2	730.00
4384D29	1000	34 / 35	19 / 26	19 / 26	2	730.00
4384A30	2000	24 / 29	14 / 23	14 / 23	2	1325.00
4384B30	2000	24 / 29	19 / 26	19 / 26	2	1325.00
4384C30	2000	34 / 35	19 / 26	19 / 26	2	1325.00
4384D30	2000	34 / 35	24 / 29	24 / 29	2	1325.00
4384A31	3000	34 / 35	19 / 26	19 / 26	2	3314.00
4384B31	3000	34 / 35	24 / 29	24 / 29	2	3314.00
4384A33	5000	34 / 35	19 / 26	19 / 26	1	4676.00
4384B33	5000	34 / 35	24 / 29	24 / 29	1	4676.00
4384C33	5000	45 / 40	24 / 29	24 / 29	1	4676.00
4384A38	10000	34 / 35	19 / 26	19 / 26	1	9038.00
4384B38	10000	34 / 35	24 / 29	24 / 29	1	9038.00
4384C38	10000	45 / 40	24 / 29	24 / 29	1	9038.00
4384A40	20000	55 / 44	24 / 29	24 / 29	1	13556.00

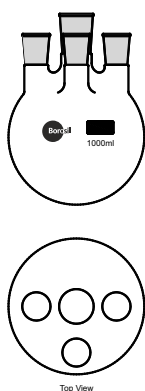
4385 - Flasks, Round Bottom, Four Necks, Centre Neck and Three Angled Side Neck, with Interchangeable Joints

- 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
- 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

Product Code	Capacity ml	Interchangeable Joint Size		Quantity Per Case	Price / Piece ₹
		Centre Neck	Side Neck		
4385A12	50	24 / 29	24 / 29	4	439.00
4385A16	100	24 / 29	14 / 23	4	486.00
4385B16	100	24 / 29	19 / 26	4	486.00
4385A21	250	24 / 29	14 / 23	4	607.00
4385B21	250	24 / 29	19 / 26	4	607.00
4385A24	500	24 / 29	14 / 23	4	866.00
4385B24	500	24 / 29	19 / 26	4	866.00
4385C24	500	24 / 29	24 / 29	4	866.00
4385D24	500	34 / 35	24 / 29	4	866.00
4385A29	1000	24 / 29	14 / 23	2	1072.00
4385B29	1000	24 / 29	19 / 26	2	1072.00
4385C29	1000	24 / 29	24 / 29	2	1072.00
4385D29	1000	34 / 35	24 / 29	2	1072.00
4385A30	2000	24 / 29	14 / 23	2	1784.00
4385B30	2000	24 / 29	19 / 26	2	1784.00
4385C30	2000	34 / 35	19 / 26	2	1784.00
4385D30	2000	34 / 35	24 / 29	2	1784.00
4385A31	3000	34 / 35	19 / 26	2	4158.00
4385B31	3000	34 / 35	24 / 29	2	4158.00
4385A33	5000	34 / 35	19 / 26	1	5705.00
4385B33	5000	34 / 35	24 / 29	1	5705.00
4385A38	10000	55 / 44	24 / 29	1	10210.00
4385B38	10000	34 / 35	24 / 29	1	10210.00
4385A40	20000	55 / 44	24 / 29	1	14969.00



Top View



4386 - Flasks, Round Bottom, 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 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
- All the four necks are vertical. The two side necks are 180° apart
- The third neck is at 90° from the other two necks

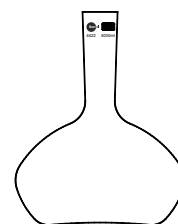
Product Code	Capacity ml	Interchangeable Joint Size		Quantity Per Case	Price / Piece ₹
		Centre Neck	Side Neck		
4386A12	50	24 / 29	24 / 29	4	439.00
4386A16	100	24 / 29	14 / 23	4	486.00
4386B16	100	24 / 29	19 / 26	4	486.00
4386A21	250	24 / 29	14 / 23	4	607.00
4386B21	250	24 / 29	19 / 26	4	607.00
4386A24	500	24 / 29	14 / 23	4	866.00
4386B24	500	24 / 29	19 / 26	4	866.00
4386C24	500	24 / 29	24 / 29	4	866.00
4386D24	500	34 / 35	24 / 29	4	866.00
4386A29	1000	24 / 29	14 / 23	2	1072.00
4386B29	1000	24 / 29	19 / 26	2	1072.00
4386C29	1000	24 / 29	24 / 29	2	1072.00
4386D29	1000	34 / 35	24 / 29	2	1072.00
4386A30	2000	24 / 29	14 / 23	2	1784.00
4386B30	2000	24 / 29	19 / 26	2	1784.00
4386C30	2000	34 / 35	19 / 26	2	1784.00
4386D30	2000	34 / 35	24 / 29	2	1784.00
4386A31	3000	34 / 35	19 / 26	2	4158.00
4386B31	3000	34 / 35	24 / 29	2	4158.00
4386A33	5000	34 / 35	19 / 26	1	5705.00
4386B33	5000	34 / 35	24 / 29	1	5705.00
4386A38	10000	55 / 44	24 / 29	1	10210.00
4386B38	10000	34 / 35	24 / 29	1	10210.00
4386A40	20000	55 / 44	24 / 29	1	14964.00

4422 - Flasks, Culture, Haffkine

- Complies with IS 7183
- The large, flat bottom surface ensures uniform culture thickness
- 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	2512.00
4422032	4000	246 x 310	2	2955.00

** 3000 ml not covered in standards

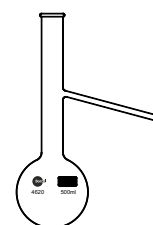


4620-Flasks, Distilling, With Side Arm

- 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	64 x 210	21	4	216.00
4620017	*125	70 x 215	21	4	228.00
4620021	250	85 x 230	25	4	266.00
4620024	500	105 x 250	28	4	345.00
4620029	1000	130 x 305	31	4	475.00

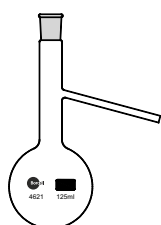
Specification as per the Institute of Petroleum Standard No. IP 123/64





4621 - Flasks, Distilling with I/C joint 19/26 as per ASTM D86

Product Code	Capacity ml	Approx O.D. x Height mm	Approx Neck I. D.	Inter-changeable Joint	Quantity Per Case	Price / Piece ₹
4621017	125	70 x 218	19	19 / 26	20	390.00



4980 - Flasks, Erlenmeyer, Conical, Narrow Mouth

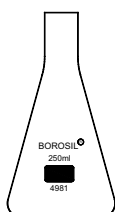
- Complies with IS 1381(Part I),ISO / DIN 1773
- Uniform wall thickness distribution makes these Flasks ideal for heating
- The conical form makes them suitable for mixing liquids
- The easy-to-read scale and large labelling field facilitate easy marking
- Graduated from 25 ml to 5000 ml

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	72.00
4980009	25	40 x 75	22	40	77.00
4980012	50	51 x 90	22	100	77.00
4980016	100	64 x 105	22	100	77.00
NEW 4980017	125**	66 x 110	28	100	95.00
4980018	150**	72 x 124	28	100	98.00
4980021	250	85 x 145	34	40	120.00
4980024	500	105 x 180	38	40	170.00
4980029	1000	131 x 220	42	20	295.00
4980030	2000	166 x 280	52	20	510.00
4980031	3000	187 x 310	48	4	1385.00
4980033	5000	220 x 365	50	2	2275.00

25 ml to 5000 ml Graduated

** Not covered in standards



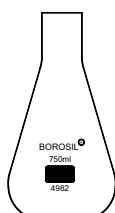


4981 - Flasks, Erlenmeyer, Conical, Long Neck, Without Rim

- Uniform wall thickness distribution makes these Flasks ideal for heating
- Ideal for culture work
- 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

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	165.00

Suitable for culture work, designed for cotton plug or metal caps



4982 - Flasks, Conical, Without Rim

- Uniform wall thickness distribution makes these Flasks ideal for heating
- Ideal for culture work
- Designed without a rim for use in the shaker machine
- The conical form makes them suitable for mixing liquids
- The easy-to-read scale and large labelling field facilitate easy marking

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	369.00

Suitable for culture work, designed for use in shaker machine

4989 - Flasks, Erlenmeyer, Graduated, Conical, Amber, with Narrow Mouth

- Complies with IS 1381 (Part I), ISO / DIN 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	25	10	150.00
4989018	150**	72 x 124	28	10	172.00
4989021	250	85 x 145	34	10	205.00
4989024	500	104 x 180	38	10	345.00
4989029	1000	131 x 220	42	10	588.00

Similar in design to Cat. No. 4980

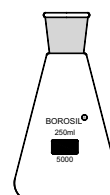
** Not covered in standards



5000 - Flasks, Erlenmeyer, Conical, Narrow Mouth, with interchangeable Joint

- Complies with IS 1381 (Part II), ISO / DIN 4797
- 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
- Equipped with interchangeable joints

Product Code	Capacity ml	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
5000009	25	14 / 23	10	150.00
5000012	50	19 / 26	10	155.00
5000016	100	24 / 29	10	180.00
5000021	250	24 / 29	10	199.00
5000024	500	24 / 29	5	285.00





5015 - Flasks, 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 $\pm 5\%$ can be achieved
- Manufactured from chemically resistance 3.3 borosilicate tubing

Product Code	Capacity ml	Flask Capacity ml	Quantity Per Case	Price / Piece ₹
5015005	5	100	5	695.00
5015006	10	250	5	720.00
5015008	20	250	10	810.00
5015009	25	250	10	865.00
5015012	50	250	10	1025.00



5019 - Flasks, Erlenmeyer, Conical, Narrow Mouth, with Interchangeable Stopper, **Amber**

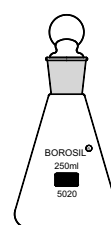
- Uniform wall thickness distribution makes these Flasks ideal for heating
- The conical form makes them suitable for mixing of liquids
- These Flasks can be closed with a glass stopper
- Coloured in Amber to protect light-sensitive material
- The Amber colour is applied only to the external surface to prevent contamination with the testing material

Product Code	Capacity ml	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
5019009	25	14 / 23	10	290.00
5019012	50	19 / 26	10	305.00
5019016	100	24 / 29	20	370.00
5019021	250	24 / 29	20	455.00
5019024	500	24 / 29	10	745.00

5020 - Flasks, Erlenmeyer, Conical, Narrow Mouth, With Interchangeable Stopper

- Uniform wall thickness distribution makes these Flasks ideal for heating
- The conical form makes them suitable for mixing of liquid
- These Flasks can be closed with a glass stopper

Product Code	Capacity ml	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
5020009	25	14 / 23	10	180.00
5020012	50	19 / 26	10	211.00
5020016	100	24 / 29	20	235.00
5020021	250	24 / 29	20	275.00
5020024	500	24 / 29	10	390.00
5020029	1000	29 / 32	10	555.00
5020030	2000	29 / 32	10	785.00

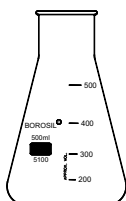


5021 - Flasks, Conical, With Screw Cap

- Uniform wall thickness distribution makes these Flasks ideal for heating
- The conical form makes them suitable for mixing of liquids
- These Flasks can be closed with a screw cap
- The caps are made of PP

Product Code	Capacity ml	Neck Specification	Quantity Per Case	Price / Piece ₹
5021016	100	GL 25	20	225.00
5021018	150	GL 25	20	255.00
5021021	250	GL 45	20	305.00
5021024	500	GL 45	10	370.00
5021029	1000	GL 45	10	710.00
5021030	2000	GL 45	10	1020.00
5021033	5000	GL 45	2	4810.00





5100 - Flasks, Erlenmeyer, Conical, Wide Mouth

- Complies with IS 1381
- 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	70 x 110	34	20	89.00
5100021	250	85 x 142	50	30	128.00
5100024	500	105 x 175	50	20	199.00
5100029	1000	130 x 220	56	10	344.00

5340 - Flasks, Filtering, Bolt Neck, with 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 Buchner 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	189.00
5340016	100	64 x 108	20	283.00
5340021	250	85 x 155	10	415.00
5340024	500	105 x 184	20	498.00
5340029	1000	136 x 227	10	765.00
5340030	2000	168 x 270	5	1524.00
5340033	5000	237 x 390	2	5540.00
5340038	10000**	230 x 488	1	9640.00
5340040	20000**	290 x 580	1	15390.00

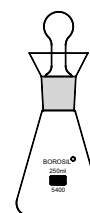
** These flasks are bottle shaped

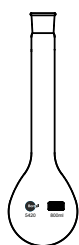


5400 - Flasks, Iodine Determination, with Interchangeable Stopper

- These Flasks are blown especially for the determination of Iodine value according to the
- Methods of ASTM D-29
- 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	197.00
5400021	250	24 / 29	10	250.00
5400024	500	24 / 29	10	310.00

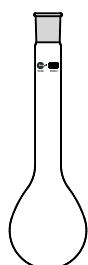




5420 - Flasks, Kjeldahl, Round Bottom, Long Neck

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

Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
5420006	10	30 x 180	10	90.00
5420010	30	40 x 180	10	105.00
5420016	100	61 x 210	10	175.00
5420022	300	80 x 298	10	285.00
5420024	500	100 x 325	10	550.00
5420028	800	113 x 375	10	670.00



5430 - Flasks, Kjeldahl, Round Bottom, Interchangeable Joint

- These Flasks are specially designed for nitrogen/protein determination as per Kjeldahl method.
- Designed with a tooled neck for greater strength and better stopper fit
- 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	Interchangeable Joint Size	Quantity Per Case	Price / Piece ₹
5430024	500	100 x 320	24 / 29	10	690.00
5430028	800	113 x 375	24 / 29	10	765.00

FLASKS



- Conforms to IS 1381 (Part I & Part II)
- 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

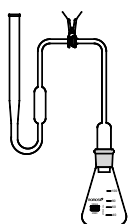
Manufacturers of Laboratory Glassware
From 3.3 Low Expansion Borosilicate Glass



5200 - Arsenic Determination Apparatus as per USP

- Designed for the estimation of Arsenic

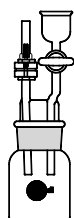
Product Code	Quantity Per Case	Price / Piece ₹
5200001	1	2640.00



5201 - Arsenic Determination Apparatus Gutzeit

- Designed for the estimation of Arsenic

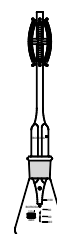
Product Code	Quantity Per Case	Price / Piece ₹
5201001	1	2640.00



5202 - Arsenic Determination Apparatus as per BP

- Designed for the estimation of Arsenic

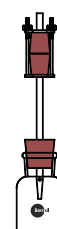
Product Code	Quantity Per Case	Price / Piece ₹
5202001	1	1900.00



5203 - Arsenic Determination Apparatus as per IP

- Designed for the estimation of Arsenic

Product Code	Quantity Per Case	Price / Piece ₹
5203001	1	1585.00

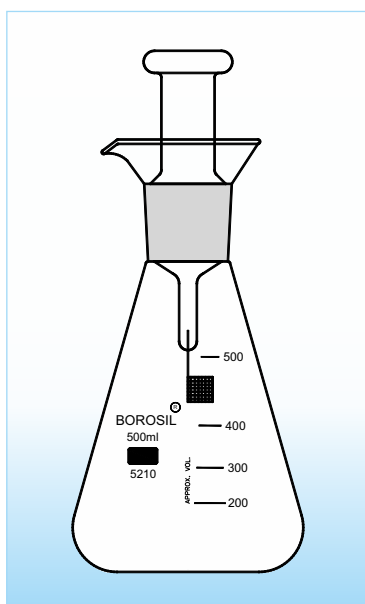




5204 - Arsenic Determination Apparatus as per IS

- Designed for the estimation of Arsenic

Product Code	Quantity Per Case	Price / Piece ₹
5204001	1	1900.00



5210 - Oxygen Combustion Flask as per USP

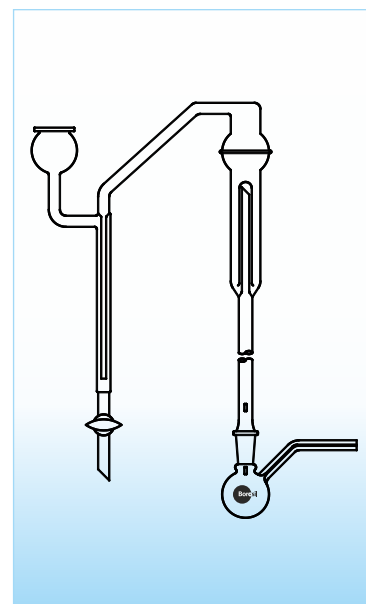
- Complies to ASTM E205 - 96
- Manufactured from 3.3 borosilicate, USP Type I glass
- Use for the determination of bromine, chlorine, iodine and sulfur

Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
5210021	250	1	33500.00
5210024	500	1	36500.00



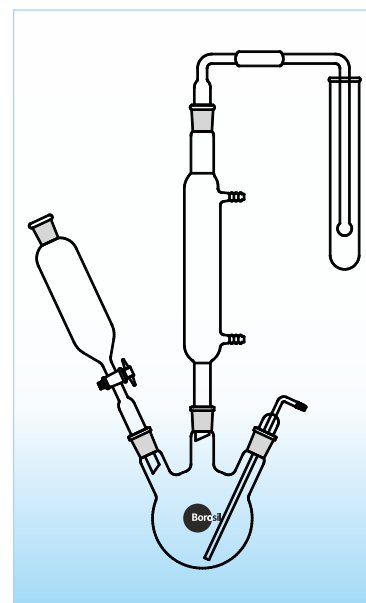
5211 - Methoxy Detrmination Assembly as per USP

Product Code	Quantity Per Case	Price / Piece ₹
5211	1	8200.00



5212 - Sulfur Di Oxide Assembly as per USP

Product Code	Quantity Per Case	Price / Piece ₹
5212024	1	10500.00



Filtration Assembly



- HPLC Mobile Phase Filtration
- Analysis of Particulate / bacterial contamination & general laboratory micro-filtration
- Units have G1 coarse porosit Frits & accomodate 47 mm filters / 25 mm filters
- All glass design ensures Chemical Compatibility with Most of the Organic Solvents.

Application :

Used for Filtration of HPLC solvents and aqueous mobile phase solutions and buffers.

Specifications

- 100% Borosilicate Glass with fritted glass filter base. Base design has integral vacuum connection located above filtrate drip to prevent contamination of vacuum line with droplets.
- Anodized Aluminum Spring clamp
- Filter Size : 47mm
- Effective Filtration Area : 9.6 cm²
- Funnel Capacity : 300 ml
- Flask Capacity : 500 ml / 1 Lit / 2 Ltr / 5 Ltr

5350 - All Glass Filter Holder - 47mm, Filtration Assembly

- Made of borosilicate glass with fritted glass filter base
- The base design has an integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line from droplets
- Anodised aluminium spring clamp
- The filter size is 47 mm
- The effective filtration area is 9.6 cm²
- Used for filtration of HPLC solvents and aqueous mobile phase solutions and buffers
- The scaled funnels simplify dosing and analysis

Product Code	Capacity ml	Filtration Base Size mm	Quantity Per Case	Price / Piece ₹
5350024	500	47	1	12500.00
5350029	1000	47	1	12900.00
5350030	2000	47	1	16950.00

Spares For All Glass Filter Holder - 47mm

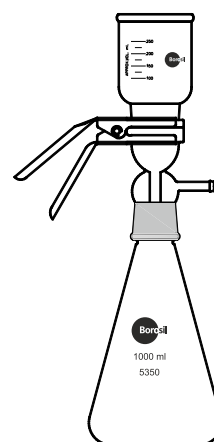
Product Code	Capacity ml	Description	Price / Piece ₹
5350124	500 ml	Flask For Filter Holder	2450.00
5350129	1000 ml	Flask For Filter Holder	3600.00
5350130	2000 ml	Flask For Filter Holder	8130.00
5350S01	300 ml	Funnel For Filter Holder	3270.00
5350S02	47 mm	Filter Support Base For Filter Holder	4190.00
5350S03	47 mm	Aluminium Clamp for Filter Holder	2785.00

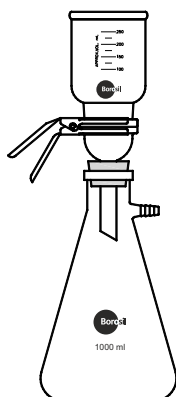
5350-All Glass Filter Holder Assembly - 90mm

Product Code	Capacity ml	Filtration Base Size mm	Quantity Per Case	Price / Piece ₹
5350033	5000	90	1	92500.00

Spares For All Glass Filter Holder - 90mm

Product Code	Capacity ml	Description	Price / Piece ₹
5350133	5000 ml	Flask For Filter Holder With B 55 Cone	32090.00
5350233	1000 ml	Funnel For Filter Holder Flask	13535.00
5350333	90 mm	Filter Support Base For Filter Holder	48365.00
5350433	90 mm	Aluminium Clamp for Filter Holder	7545.00





5360 - All Glass Filter Holder - 47mm, Filtration Assembly

- Made of borosilicate glass with fritted glass filter base
- The base design has an integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line from droplets
- The filtration base has a silicon stopper
- Anodised aluminium spring clamp
- The filter size is 47mm
- The effective filtration area is 9.6 cm²
- Facilitates analysis of particulate or biological contamination of vacuum filtering liquid
- The scaled funnels simplify dosing and analysis

Product Code	Capacity ml	Filtration Base Size mm	Quantity Per Case	Price / Piece ₹
5360029	1000	47	1	12200.00
5360030	2000	47	1	14015.00

Spares For All Glass Filter Holder - 47mm

Product Code	Capacity ml	Description	Price / Piece ₹
5360129	1000 ml	Flask For Filter Holder	3510.00
5360130	2000 ml	Flask For Filter Holder	4855.00
5350S01	300 ml	Funnel For Filter Holder	3270.00
5360S02	47 mm	Filter Support Base For Filter Holder With Silicon	4240.00
5350S03	47 mm	Aluminium Clamp for Filter Holder	2785.00

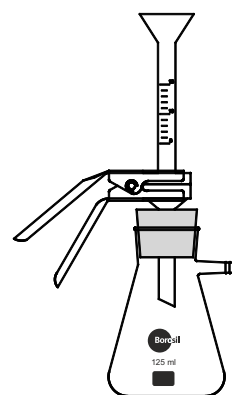
5370 - Glass Filter Holder With Silicon Stopper - 25 mm

- Made of borosilicate glass with fritted glass filter base
- The base design has an integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line from droplets
- The filtration base has a silicon stopper
- Anodised aluminium spring clamp
- The filter size is 25 mm
- The effective filtration area is 9.6 cm²
- Facilitates analysis of particulate or biological contamination of vacuum filtering liquid
- The scaled funnels simplify dosing and analysis

Product Code	Capacity ml	Filtration Base Size mm	Quantity Per Case	Price / Piece ₹
5370017	125	25	1	6140.00

Spares For Glass Filter Holder With Silicon Stopper - 25 mm

Product Code	Capacity ml	Description	Price / Piece ₹
5370S01	125 ml	Flask For Filter Holder	2430.00
5370S02	15 ml	Funnel For Filter Holder	1470.00
5370S03	25 mm	Filter Support Base For Filter Holder With Silicon	3405.00
5370S04	25mm	Aluminium Clamp for Filter Holder	1865.00



Volumetric Flask



As the field of chemistry evolves with more research & educational institutions as well as industrial applications expanding day by day, the need for high quality glassware has been felt more than ever before. Be it the preparation of standard solutions or making the right volume with appropriate calibration, Volumetric Glassware offers the right mix of quality and efficiency for numerous objectives.

- Manufactured from 3.3 Low Expansion Borosilicate I. D. control tubing
- Individually calibrated with automatic calibration process
- Comes with highest quality standards according to **DIN / ISO 1042 & USP (E 288)**
- Strict quality control through all steps eliminate possible deviations from nominal volume
- Supplied with individual certificate which can be downloaded from our website also
- Volumetric Flasks are supplied with plastic or solid glass stopper

It 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. The Volumetric Flasks are manufactured in a range of sizes that is capable of containing 1 to 5,000 ml of liquid.

It is very important to understand that for analysis that demands high precision, the selection of instruments is very vital. And 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.

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.

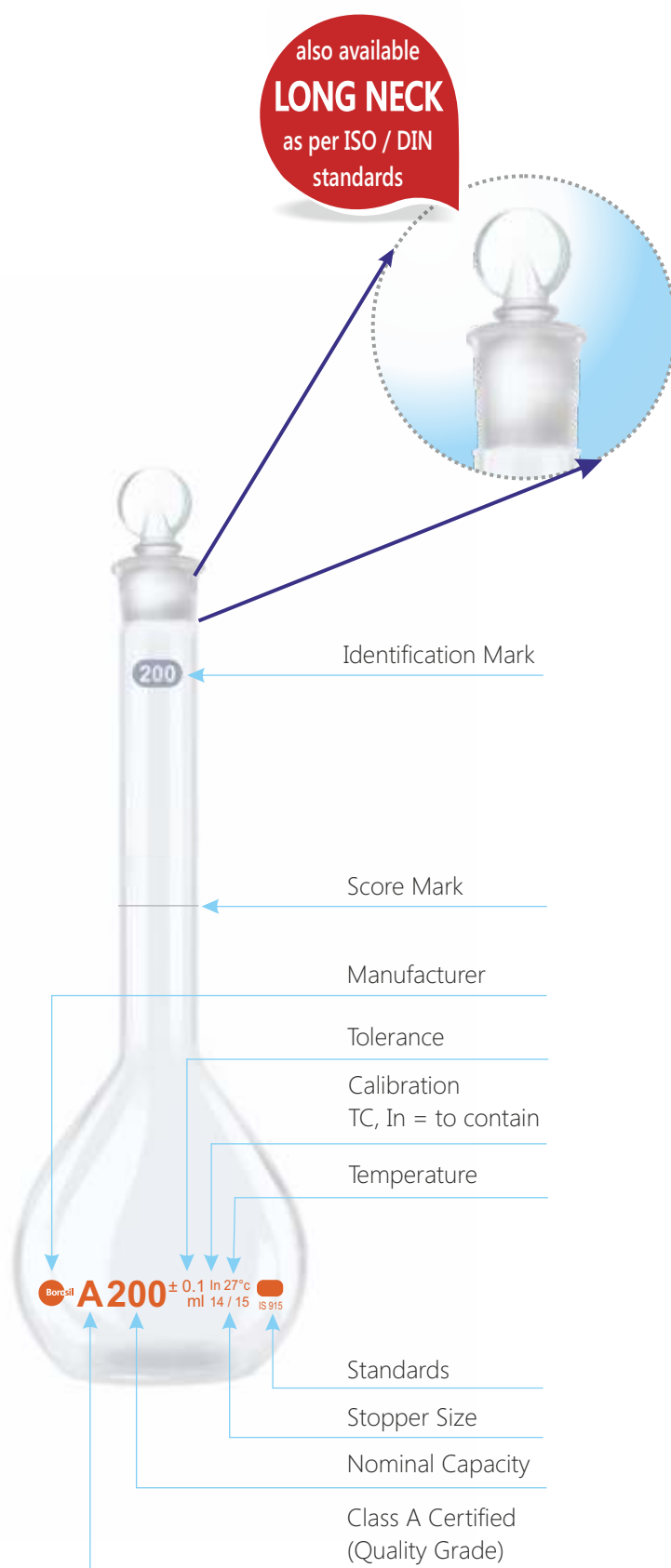
Calibration:


- 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, provided with unique Code No. and supplied with individual Certificate

Printing:

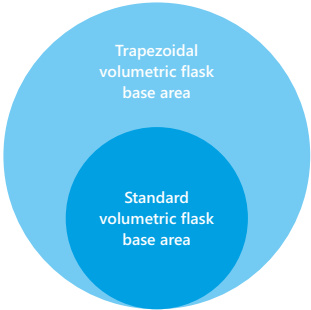
- All Volumetric Flasks are printed with silk screen in permanent amber
- The amber Volumetric Flasks are printed with white ceramic enamel

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.






Trapezoidal Volumetric Flask



Volumetric flasks with small capacities can be topple down more easily due to their higher centre of gravity.

Trapezoidal volumetric flasks have much larger base area which ensures higher stability. It has atleast twice base area compare to standard volumetric flask of the same capacity.

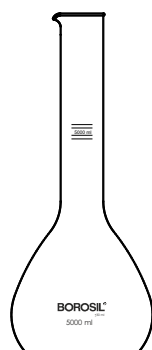




5639 - Jars, Measuring, with Pour Out, with Works Certificate

- Suitable for measurement of petrol and diesel
- Calibrated as per weight and measure guidelines

Product Code	Capacity ml	Quantity per Case	Price / Piece ₹
5639033	5000	1	5865.00



5640 - Flasks, Volumetric, with Interchangeable Solid Glass Stopper, Accuracy as per Class A, with Certificate

- Each flask engraved with individual serial number and supplied with certificate of calibration traceable to National standards
- Manufactured from **3.3 borosilicate, USP Type I glass** for corrosion-free performance
- Amber enamel inscriptions

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5640001	1*	0.015	10 / 15	5	810.00
5640002	2*	0.015	10 / 15	5	810.00
5640005	5	0.025	10 / 15	5	725.00
5640006	10	0.025	10 / 15	5	630.00
5640008	20	0.04	10 / 15	5	630.00
5640009	25	0.04	10 / 15	5	580.00
5640012	50	0.06	10 / 15	10	560.00
5640016	100	0.10	14 / 15	10	545.00
5640020	200	0.15	14 / 15	10	760.00
5640021	250	0.15	14 / 15	10	765.00
5640024	500	0.25	19 / 20	10	1000.00
5640029	1000	0.40	19 / 20	10	1460.00
5640030	2000	0.60	24 / 25	2	2375.00
5640033	5000	1.20	34 / 35	1	11700.00

- * 1 ml and 2 ml size are of test tube shape
- 5 ml to 20 ml supplied with trapezoidal shape for better stability
- Certified and Calibrated at 27°C**



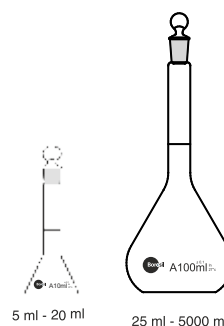
5640D - Flasks, Volumetric, with Interchangeable Solid Glass Stopper, Accuracy as per Class A, with Certificate

- Complies with ISO / DIN 1042**
- Manufactured from **3.3 borosilicate, USP Type I glass** for corrosion-free performance

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5640001D	1	0.015	7 / 16	5	810.00
5640002D	2	0.015	7 / 16	5	810.00
5640005D	5	0.025	7 / 16	5	725.00
5640006D	10	0.025	7 / 16	5	630.00
5640008D	20	0.04	10 / 19	5	630.00
5640009D	25	0.04	10 / 19	5	580.00
5640012D	50	0.06	12 / 21	10	560.00
5640016D	100	0.10	14 / 23	10	545.00
5640020D	200	0.15	14 / 23	10	760.00
5640021D	250	0.15	14 / 23	10	765.00
5640024D	500	0.25	19 / 26	10	1000.00
5640029D	1000	0.40	24 / 29	10	1460.00
5640030D	2000	0.60	29 / 32	2	2375.00
5640033D	5000	1.20	34 / 35	2	11700.00

- 1 ml to 20 ml supplied with trapezoidal shape for better stability
- Certified and Calibrated at 20°C**

Calibrated at
27°C



Calibrated at
20°C





5641 - Flasks, Volumetric, with Interchangeable PP Stopper Accuracy as per Class B

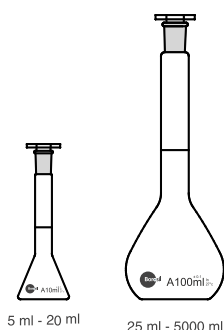
- Manufactured from **3.3 borosilicate, USP Type I glass** for corrosion-free performance
- Amber enamel inscriptions

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5641001	1*	0.03	10 / 15	10	255.00
5641002	2*	0.03	10 / 15	10	255.00
5641005	5	0.05	10 / 15	10	225.00
5641006	10	0.05	10 / 15	10	215.00
5641008	20	0.08	10 / 15	10	215.00
5641009	25	0.08	10 / 15	10	210.00
5641012	50	0.12	10 / 15	10	230.00
5641016	100	0.20	14 / 15	10	260.00
5641020	200	0.30	14 / 15	10	295.00
5641021	250	0.30	14 / 15	10	305.00
5641024	500	0.50	19 / 20	10	410.00
5641029	1000	0.80	19 / 20	10	615.00
5641030	2000	1.20	24 / 25	2	1160.00
5641033	5000	2.40	34 / 35	1	5190.00

* 1 ml and 2 ml size are of test tube shape

5 ml to 20 ml supplied with trapezoidal shape for better stability

- **Certified and Calibrated at 27°C**



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2020 - Flasks, Volumetric, With Interchangeable Solid Glass Stopper, Accuracy as per Class A, with Certificate

- Manufactured from **3.3 borosilicate, USP Type I glass** for corrosion-free performance

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
2020001	1	0.015	10 / 15	1	1673.00
2020002	2	0.015	10 / 15	1	1673.00
2020005	5	0.025	10 / 15	1	1499.00
2020006	10	0.025	10 / 15	1	1298.00
2020008	20	0.04	10 / 15	1	1298.00
2020009	25	0.04	10 / 15	1	1209.00
2020012	50	0.06	10 / 15	1	1209.00
2020016	100	0.10	14 / 15	1	1177.00
2020020	200	0.15	14 / 15	1	1594.00
2020021	250	0.15	14 / 15	1	1610.00
2020024	500	0.25	19 / 20	1	2137.00
2020029	1000	0.40	19 / 20	1	3098.00
2020030	2000	0.60	24 / 25	1	5029.00

- 1 ml to 20 ml supplied with trapezoidal shape for better stability

- **Certified and Calibrated at 27°C**

PRICES EXCLUSIVE OF TAXES

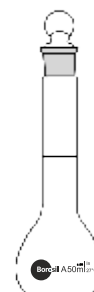
5643 - Flask, Wide Mouth Volumetric with Interchangeable Solid Glass Stopper Class A, with Certificate

- Complies with ISO / DIN 1042
- Manufactured from **3.3 borosilicate, USP Type I glass** for corrosion-free performance
- Each flask engraved with individual serial number and supplied with certificate of calibration traceable to National standards
- Specially designed wide mouth for testing bigger dia. Tablet without making it in powder form

	Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
NEW	5643005	5	0.04	10 / 19	5	725.00
NEW	5643006	10	0.04	10 / 19	5	630.00
NEW	5643008	20	0.06	12 / 21	5	645.00
	5643009	25	0.06	14 / 15	5	695.00
NEW	5643A09	25	0.06	12 / 21	5	695.00
	5643012	50*	0.100	14 / 15	10	672.00
	5643016	100*	0.100	19 / 20	10	710.00
	5643020	200*	0.150	19 / 20	10	920.00
NEW	5643021	250	0.06	19 / 26	10	990.00
NEW	5643029	1000	0.06	29 / 32	10	1530.00

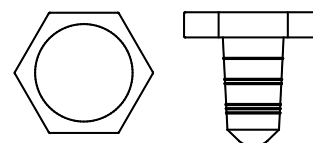
* Not covered in the standards
- Certified and Calibrated at 27°C

Calibrated at
27°C



8300 - PP Stoppers for Volumetric flasks

Product Code	Interchangeable ml	Quantity Per Case	Price / Piece ₹
8300007	7 / 16	100	45.00
8300010	10 / 15	100	60.00
8300A10	10 / 19	100	60.00
8300012	12 / 21	100	72.00
8300014	14 / 15	100	85.00
8300A14	14 / 23	100	85.00
8300019	19 / 20	50	87.00
8300A19	19 / 26	50	87.00
8300024	24 / 25	50	95.00
8300A24	24 / 29	50	95.00
8300A29	29 / 32	50	135.00
8300A34	34 / 35	50	145.00





Calibrated at
20°C

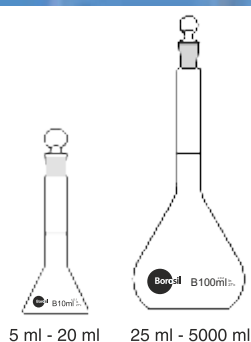
5645 - Flasks, Volumetric, with Interchangeable Solid Glass Stopper Accuracy as per Class A, USP (US Pharmacopoeia), with Certificate

- Manufactured from **3.3 borosilicate, USP Type I glass** for corrosion-free performance
- Calibrated as per USP tolerance (ASTM E 288)
- Amber enamel inscriptions

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5645005	5	0.02	10 / 15	5	815.00
5645006	10	0.02	10 / 15	5	710.00
5645008	20*	0.03	10 / 15	5	712.00
5645009	25	0.03	10 / 15	5	653.00
5645012	50	0.05	10 / 15	10	630.00
5645016	100	0.08	14 / 15	10	615.00
5645020	200	0.10	14 / 15	10	855.00
5645021	250	0.12	14 / 15	10	860.00
5645024	500	0.20	19 / 20	10	1125.00
5645029	1000	0.30	19 / 20	10	1645.00
5645030	2000	0.50	24 / 25	2	2672.00

- 5 ml to 20 ml supplied with trapezoidal shape for better stability

- **Certified and Calibrated at 20°C**



5 ml - 20 ml

25 ml - 5000 ml



Calibrated at
20°C

5645D - Flasks, Volumetric, with Interchangeable Solid Glass Stopper Accuracy as per Class A, USP (US Pharmacopoeia), with Certificate

- Manufactured from **3.3 borosilicate, USP Type I glass** for corrosion-free performance
- Calibrated as per USP tolerance (ASTM E 288)

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5645005D	5	0.02	7 / 16	5	815.00
5645006D	10	0.02	7 / 16	5	710.00
5645008D	20*	0.03	10 / 19	5	712.00
5645009D	25	0.03	10 / 19	5	653.00
5645012D	50	0.05	12 / 21	10	630.00
5645016D	100	0.08	14 / 23	10	615.00
5645020D	200	0.10	14 / 23	10	855.00
5645021D	250	0.12	14 / 23	10	860.00
5645024D	500	0.20	19 / 26	10	1125.00
5645029D	1000	0.30	24 / 29	10	1645.00
5645030D	2000	0.50	29 / 32	2	2672.00

- 5 ml to 20 ml supplied with trapezoidal shape for better stability

- **Certified and Calibrated at 20°C**

PRICES EXCLUSIVE OF TAXES

5648 - Flasks, Volumetric, with Interchangeable Solid Glass Stopper Accuracy as per Class A, **Amber**, with Certificate

- Each flask engraved with individual serial number and supplied with certificate of calibration traceable to National standards
- Manufactured from **3.3 borosilicate USP Type I glass** with an amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5648005	5	0.025	10 / 15	5	870.00
5648006	10	0.025	10 / 15	5	756.00
5648008	20	0.04	10 / 15	5	756.00
5648009	25	0.04	10 / 15	5	696.00
5648012	50	0.06	10 / 15	10	672.00
5648016	100	0.10	14 / 15	10	654.00
5648020	200	0.15	14 / 15	10	912.00
5648021	250	0.15	14 / 15	10	890.00
5648024	500	0.25	19 / 20	10	1200.00
5648029	1000	0.40	19 / 20	10	1752.00
5648030	2000	0.60	24 / 25	2	2850.00

- 5 ml to 20 ml supplied with trapezoidal shape for better stability

- **Certified and Calibrated at 27°C**

Calibrated at
27°C



5648D - Flasks, Volumetric, with Interchangeable Solid Glass Stopper Accuracy as per Class A, **Amber**, with Certificate

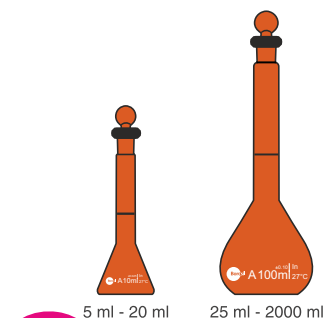
- Complies with ISO / DIN 1042**
- Manufactured from **3.3 borosilicate USP Type I glass** with an amber coating on exterior surfaces to facilitate use with light sensitive solutions

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5648005D	5	0.025	7 / 16	5	870.00
5648006D	10	0.025	7 / 16	5	756.00
5648008D	20	0.04	10 / 19	5	756.00
5648009D	25	0.04	10 / 19	5	696.00
5648012D	50	0.06	10 / 19	10	672.00
5648016D	100	0.10	14 / 23	10	654.00
5648020D	200	0.15	14 / 23	10	912.00
5648021D	250	0.15	14 / 23	10	890.00
5648024D	500	0.25	19 / 26	10	1200.00
5648029D	1000	0.40	24 / 29	10	1752.00
5648030D	2000	0.60	29 / 32	2	2850.00

- 5 ml to 20 ml supplied with trapezoidal shape for better stability

- **Certified and Calibrated at 20°C**

Calibrated at
20°C





5649 - Flasks, Volumetric, with Interchangeable Glass Stopper, Accuracy as per Class B, Amber

- Complies with ISO / DIN 1042
- Manufactured from **3.3 borosilicate USP Type I glass** with an amber coating on exterior surfaces to facilitate use with light sensitive solutions
- White enamel inscriptions

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5649005	5	0.05	10 / 15	10	340.00
5649006	10	0.05	10 / 15	10	320.00
5649008	20	0.08	10 / 15	10	320.00
5649009	25	0.08	10 / 15	10	305.00
5649012	50	0.12	10 / 15	10	315.00
5649016	100	0.20	14 / 15	10	350.00
5649020	200	0.30	14 / 15	10	400.00
5649021	250	0.30	14 / 15	10	410.00
5649024	500	0.50	19 / 20	10	585.00
5649029	1000	0.80	19 / 20	10	925.00
5649030	2000	1.20	24 / 25	2	1575.00

- 5 ml to 20 ml supplied with trapezoidal shape for better stability

- Certified and Calibrated at 27°C



Calibrated at 27°C

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2021 - Flasks, Volumetric, With Interchangeable Solid Glass Stopper, Accuracy as per Class A, Amber with Certificate

- Manufactured from **3.3 borosilicate USP Type I glass** with an amber coating on exterior surfaces to facilitate use with light sensitive solutions

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
2021005	5	0.025	10 / 15	1	1615.00
2021006	10	0.025	10 / 15	1	1415.00
2021008	20	0.04	10 / 15	1	1415.00
2021009	25	0.04	10 / 15	1	1277.00
2021012	50	0.06	10 / 15	1	1252.00
2021016	100	0.10	14 / 15	1	1297.00
2021020	200	0.15	14 / 15	1	1702.00
2021021	250	0.15	14 / 15	1	1723.00
2021024	500	0.25	19 / 20	1	2358.00
2021029	1000	0.40	19 / 20	1	3496.00
2021030	2000	0.60	24 / 25	1	5505.00

- 5 ml to 20 ml supplied with trapezoidal shape for better stability

- Certified and Calibrated at 27°C

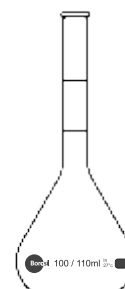


PRICES EXCLUSIVE OF TAXES

5650 - Flasks, Volumetric, Sugar Estimation, without Stopper

- Complies with BS 675
- A two mark flask designed for the analysis of sugar solutions. The two graduation marks provide a dilution of 1 in 10

Product Code	Capacity ml	Tolerance \pm ml	Quantity Per Case	Price / Piece ₹
5650016	100 / 110	0.15	20	295.00





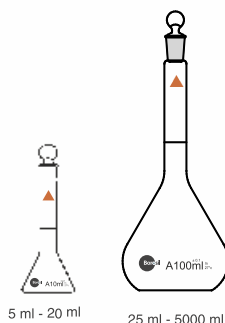
Calibrated at
27°C

5651 - Flask, Volumetric, with Interchangeable Solid Glass Stopper Accuracy Class 'A', **Amber** Mark, with Certificate

- Complies with ISO / DIN 1042
- Manufactured from **3.3 borosilicate, USP Type I glass** for corrosion-free performance
- Each flask engraved with individual serial number and supplied with certificate of calibration traceable to National standards
- Amber enamel inscriptions
- Special amber colour triangle at neck for easy differentiation. They are also suitable for Cytotoxic test where flasks to be isolated from other glassware

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5651001	1*	0.015	7 / 16	4	910.00
5651002	2*	0.015	7 / 16	4	910.00
5651005	5	0.025	7 / 16	5	815.00
5651006	10	0.025	7 / 16	5	708.00
5651008	20	0.04	10 / 19	5	708.00
5651009	25	0.04	10 / 19	5	650.00
5651012	50	0.06	12 / 21	10	600.00
5651016	100	0.1	14 / 23	10	613.00
5651020	200	0.15	14 / 23	10	805.00
5651021	250	0.15	14 / 23	10	860.00
5651024	500	0.25	19 / 26	10	1062.00
5651029	1000	0.40	24 / 29	10	1640.00
5651030	2000	0.60	29 / 32	2	2670.00

- 1 ml to 20 ml supplied with trapezoidal shape for better stability
- **Certified and Calibrated at 27°C**



5 ml - 20 ml

25 ml - 5000 ml

5652 - Flask, Volumetric, with Interchangeable Solid Glass Stopper, Accuracy Class 'A', White Mark, **Amber** with Certificate

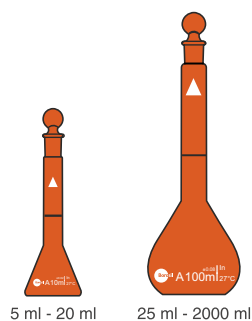
- **Complies with ISO / DIN 1042**
- Manufactured from **3.3 borosilicate USP Type I glass** with an amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Each flask engraved with individual serial number and supplied with certificate of calibration traceable to National standards
- White enamel inscriptions
- Special white colour triangle at neck for easy differentiation. They are also suitable for Cytotoxic test where flasks to be isolated from other glassware.

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5652005	5	0.025	7 / 16	5	978.00
5652006	10	0.025	7 / 16	5	850.00
5652008	20	0.04	10 / 19	5	850.00
5652009	25	0.04	10 / 19	5	780.00
5652012	50	0.06	12 / 21	10	720.00
5652016	100	0.1	14 / 23	10	735.00
5652020	200	0.15	14 / 23	10	1025.00
5652021	250	0.15	14 / 23	10	1030.00
5652024	500	0.25	19 / 26	10	1274.00
5652029	1000	0.40	24 / 29	10	1970.00
5652030	2000	0.60	29 / 32	2	3205.00

- 5 ml to 20 ml supplied with trapezoidal shape for better stability

- **Certified and Calibrated at 27°C**

Calibrated at
27°C





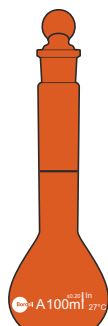
Calibrated at
27°C

5653 - Flasks, Wide Mouth Volumetric with Interchangeable Solid Glass Stopper, Class A, **Amber** with Certificate

- Complies with ISO / DIN 1042
- Manufactured from **3.3 borosilicate USP Type I glass** with an amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Each flask engraved with individual serial number and supplied with certificate of calibration traceable to National standards
- Specially designed wide mouth for testing bigger dia. Tablet without making it in powder form

	Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
NEW	5653005	5	0.04	10 / 19	5	855.00
NEW	5653006	10	0.04	10 / 19	5	745.00
NEW	5653008	20	0.06	12 / 21	5	760.00
	5653009	25	0.06	14 / 15	5	835.00
NEW	5653A09	25	0.06	12 / 21	5	835.00
	5653012	50*	0.100	14 / 15	10	805.00
	5653016	100*	0.100	19 / 20	10	875.00
	5653020	200*	0.150	19 / 20	10	1105.00
NEW	5653021	250	0.06	19 / 26	10	1670.00
NEW	5653029	1000	0.06	29 / 32	10	1805.00

* Not covered in the standards
- **Certified and Calibrated at 20°C**



5655 - Flasks, Volumetric with Interchangeable Solid Glass Stopper Accuracy as per Class A, USP (US Pharmacopoeia), Amber With Certificate

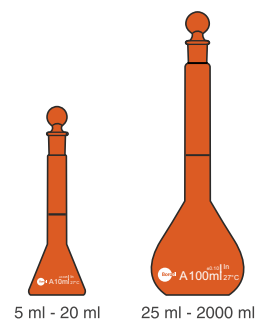
- Manufactured from **3.3 borosilicate USP Type I glass** with an amber coating on exterior surfaces to facilitate use with light sensitive solutions
- Calibrated as per USP tolerance (ASTM E 288)
- Each flask engraved with individual serial number and supplied with certificate of calibration traceable to National standards

Product Code	Capacity ml	Tolerance \pm ml	Stopper Size	Quantity Per Case	Price / Piece ₹
5655005	5	0.02	7 / 16	5	978.00
5655006	10	0.02	7 / 16	5	855.00
5655008	20	0.03	10 / 19	5	855.00
5655009	25	0.03	10 / 19	5	785.00
5655012	50	0.05	12 / 21	10	765.00
5655016	100	0.08	14 / 23	10	745.00
5655020	200	0.10	14 / 23	10	1040.00
5655021	250	0.12	14 / 23	10	1045.00
5655024	500	0.20	19 / 26	10	1380.00
5655029	1000	0.30	24 / 26	10	2010.00
5655030	2000	0.50	29 / 32	2	3245.00

- 5 ml to 20 ml supplied with trapezoidal shape for better stability

- **Certified and Calibrated at 20°C**

Calibrated at
20°C

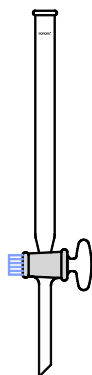
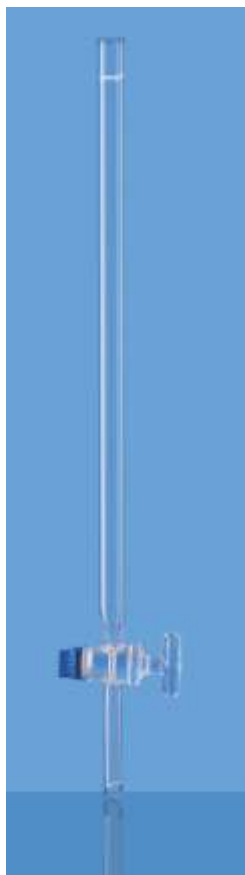


5 ml - 20 ml

25 ml - 2000 ml

Chromatography Columns

Column chromatography in chemistry is a method used to purify individual chemical compounds from mixtures of compounds. It is often used for preparative applications on scales from micrograms up to kilograms. The main advantage of column chromatography is the relatively low cost and disposability of the stationary phase used in the process. The latter prevents cross-contamination and stationary phase degradation due to recycling.



6100 - Columns, Chromatography, 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 facilitates smoother action.
- Generally used for purification of individual compounds from mixtures of compounds

Product Code	Approx Extrator Length mm	Bore mm	Quantity Per Case	Price / Piece ₹
6100060	200	10	5	324.00
6100061	300	10	5	353.00
6100062	300	18	5	392.00
6100063	450	30	5	495.00
6100064	500	10	5	381.00
6100065	500	18	5	398.00
6100066	600	30	5	653.00
6100067	600	40	5	851.00
6100068	1000	40	4	1748.00

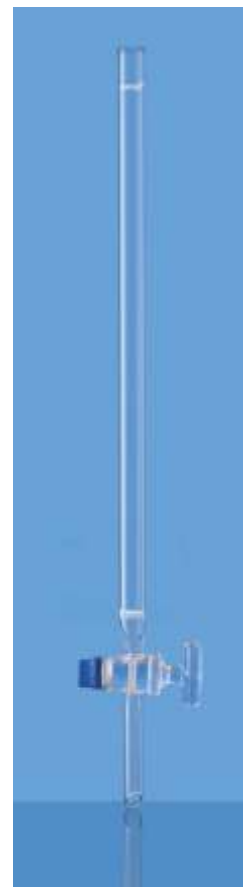
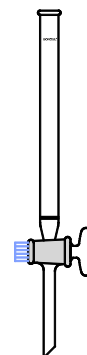
Note : The columns with Boroflow & PTFE stocock will be made available on request.

6101 - Columns, Chromatography, Plain With Sintered Disc And Glass Stopcock

- Designed with straight bore stopcock that increases the life as compared to PTFE key stopcocks
- The glass stopcock enhances control and facilitates 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 disk (Grade I) for good result

Product Code	Extrator Length mm	Bore mm	Quantity Per Case	Price / Piece ₹
6101060	200	10	5	550.00
6101061	300	10	5	568.00
6101062	300	18	5	704.00
6101063	450	30	5	874.00
6101064	500	10	5	653.00
6101065	500	18	5	761.00
6101066	600	30	5	902.00
6101067	600	45	5	1497.00
6101068	1000	45	4	2037.00

Note : The columns with Boroflow & PTFE stocock will be made available on request.



Funnels



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

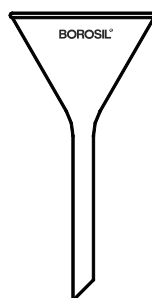
Borosil brand Funnels are available in a comprehensive range for a variety of such applications. Sintered Glass Funnels are also available.

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 facilitate the smooth and even flow of liquid with fast cut-off.

6140 - Funnels, Plain, 60° Angle, Short Stem

- Complies with IS 1591, ISO / DIN 4798
- Made 3.3 borosilicate glass, USP Type I
- 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

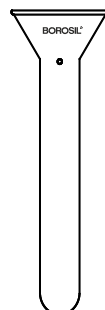
Product Code	Diameter mm	Quantity Per Case	Price / Piece ₹
6140057	25	30	72.00
6140058	35	30	94.00
6140065	50	20	105.00
6140069	65	20	122.00
6140071	75	20	123.00
6140077	100	40	165.00

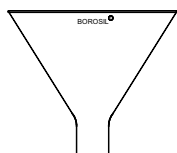


6150 - Tubes Funnel Test Tubes

- Specially Designed for Soil testing laboratory

Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
6150007	15	10	140.00
6150010	30	10	180.00

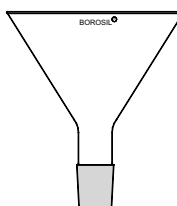




6220 - Funnels, Powder

- Ideal for transferring powders
- Designed with a short wide stem to facilitate smooth flow
- Made of chemically resistant 3.3 borosilicate glass

Product Code	Diameter mm	Quantity Per Case	Price / Piece ₹
6220080	125	30	350.00
6220081	150	20	375.00
6220087	200	4	1010.00
6220089	250	4	1462.00



6230 - Funnels, Powder, Stem, with Cone

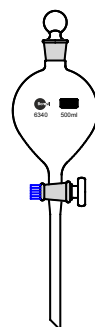
- Ideal for transferring powders
- Designed with a short wide stem to facilitate smooth flow
- Made of chemically resistant 3.3 borosilicate glass
- Supplied with ground glass cone for easy fitting on flask
- Joint size 24 / 29 for all capacities

Product Code	Diameter mm	Quantity Per Case	Price / Piece ₹
6230080	125	20	399.00
6230081	150	20	432.00
6230087	200	4	1165.00
6230089	250	4	1685.00

6340 - Funnels, Separating, Globe Shape, with Stopcock and Interchangeable Stopper

- Made 3.3 borosilicate glass, USP Type I
- Equipped with a standard ground glass stopcock
- Globe shape, 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	1025.00
6340021	250	19 / 26	10	1120.00
6340024	500	24 / 29	10	1416.00
6340029	1000	29 / 32	5	1785.00
6340030	2000	29 / 32	10	3015.00
6340033	5000	34 / 35	1	6845.00



6400 - Funnels, Separating, Pear Shape, with Stopcock and interchangeable Stopper

- Complies with IS 1575, ISO / DIN 4800
- Made 3.3 borosilicate glass, USP Type I
- Equipped with a standard ground stopcock
- Pear shape, 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	862.00
6400017	125*	19 / 26	10	940.00
6400021	250	24 / 29	10	1035.00
6400024	500	24 / 29	10	1372.00
6400029	1000	29 / 32	10	1790.00
6400030	2000	29 / 32	10	3265.00

* Not covered in standards.



PRICES EXCLUSIVE OF TAXES

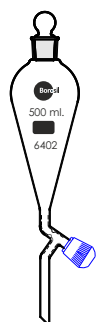


6402 - Funnels, Separating, Pear Shape, Fitted with Boroflo Stop-cock with PTFE Key and Glass Stopper

- Complies with IS 1575, ISO / DIN 4800
- Made 3.3 borosilicate glass, USP Type I
- Equipped with a Boroflo stopcock with PTFE key
- Pear shape, 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	768.00
6402017	125*	19 / 26	10	878.00
6402021	250	24 / 29	10	975.00
6402024	500	24 / 29	10	1312.00
6402029	1000	29 / 32	10	1640.00
NEW 6402030	2000	29 / 32	10	2890.00

* Not covered in standards.

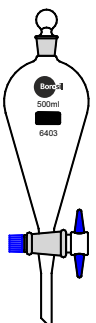


6403 - Funnels, Separating, Pear Shape, with PTFE Key Stopcock, Interchangeable Stopper

- Complies with IS 1575, ISO / DIN 4800
- Made of 3.3 borosilicate glass
- USP Type I glass
- Equipped with a PTFE key stopcock
- Pear shape, 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	1092.00
6403021	250	24 / 29	10	1195.00
6403024	500	24 / 29	10	1553.00
6403029	1000	29 / 32	10	1855.00
NEW 6403030	2000	29 / 32	10	3450.00

* Not covered in standards.



6405 - Funnel, Pressure Equilising Cylindrical, with PTFE Stopcock

- Made 3.3 borosilicate glass, USP Type I
- Equipped with totally grease free and self lubricating PTFE stopcock
- Supplied with polypropylene stopper

Product Code	Capacity ml	Socket	Cone	Quantity Per Case	Price / Piece ₹
6405012	50	19 / 26	19 / 26	5	1010.00
6405016	100	19 / 26	19 / 26	5	1210.00
6405021	250	24 / 29	24 / 29	5	1390.00
6405024	500	24 / 29	24 / 29	5	2150.00

**6408 - Dropping Funnel with Glass Stopcock**

- Complies with IS 1575, ISO / DIN 4800

Product Code	Capacity ml	Neck Joint	Quantity Per Case	Price / Piece ₹
6408012	50	14 / 23	5	630.00
6408016	100	19 / 26	5	690.00
6408021	250	24 / 29	5	840.00
6408024	500	24 / 29	5	1120.00
6408029	1000	29 / 32	5	1860.00



Gas Generator

Any scientific lab is incomplete without Gas Generator, an instrument that supports a multitude of scientific experiments across institutions and industries. It is a rapid, inexpensive and effective apparatus to produce controllable amounts of common gases such as hydrogen sulphide, carbon dioxide etc.

Borosil® Gas Generator is an ideal choice with the promise of high quality and precision, thus making it the perfect solution for scientific purposes.

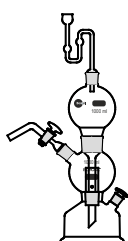


6550-Gas Generator, Kipps

- Manufactured from 3.3 Borosilicate glass for corrosion-free performance
- Used to produce common gases
- Simple to operate and quickly charged as well as assembled

Product Code	Extrator Length mm	Quantity Per Case	Price / Piece ₹
6550024	500	1	7877.00
6550029	1000	1	10061.00

* Spares available on request



The cover of Museum Jar is provided with a small orifice for easy filling of the preservative without unsealing the lid. The excellent resistance to chemical attack and good optical clarity of Borosil® brand jars gives them a clear advantage over others.

Jars

6910-Jars, Rectangular, Museum, with Cover, 3.3 Borosilicate glass

- Made from borosilicate glass
- Specially blown to give sturdiness and long life
- Top edges are flat ground to close tolerances
- Not recommended for use over a direct flame or on a hot plate
- Covers are made from Soda glass

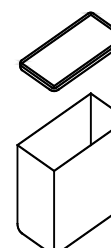
Product Code	Approx Height x Length x Breadth mm	Quantity Per Case	Price / Piece ₹
6910M41	200 x 125 x 125	1	6817.00
6910M42	200 x 150 x 100	1	7224.00
6910M43	220 x 195 x 80	1	8040.00
6910M44	250 x 165 x 140	1	8419.00
6910M45	250 x 250 x 120	1	10130.00
6910M46	360 x 150 x 100	1	16977.00



6920 - S-Line Museum Jar, clear glass

- Made from soda lime glass
- Specially blown to give sturdiness and long life
- Top edges are flat ground to close tolerances
- Not recommended for use over a direct flame or on a hot plate

Product Code	Approx Height x Length x Breadth mm	Quantity Per Case	Price / Piece ₹
6920M41	140 x 215 x 100	2	2111.00
6920M42	210 x 170 x 130	2	2217.00
6920M43	220 x 140 x 140	2	2454.00
6920M44	225 x 225 x 125	2	3746.00
6920M45	250 x 250 x 150	2	4459.00



Kettles

Borosil brand Resin Reaction Kettles are designed for organic reactions involving viscous materials. The wide mouth enables easy access for cleaning the interior. The covers are of heavy construction, while the lower sections are mould-blown to ensure maximum resistance to mechanical breakage. The covers have openings with interchangeable joints to facilitate rapid assembly with Condensers, Stirrers, etc. Flanges of the covers and base are finely ground to ensure a tight seal.

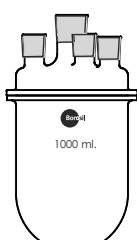


6947-Kettles, Resin Reaction

- Made of 3.3 Borosilicate glass
- Designed for viscous reaction materials
- 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

Product Code	Capacity ml	Body Dia mm	Height mm	Quantity Per Case Set	Price / Piece ₹
6947024	500	95	178	1	10127.00
6947029	1000	108	178	1	10561.00
6947030	2000	140	200	1	12881.00
6947032	4000	140	345	1	15485.00

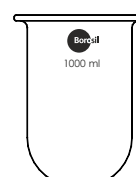
The 500 ml and 1000 ml kettles have interchangeable covers with four openings to accommodate 24 / 29 interchangeable joints. Kettles of 2000 ml and 4000 ml capacity have interchangeable covers with openings to accommodate three 24 / 29 interchangeable joints and one 34 / 35 interchangeable joint.



6948-Bottoms, Only for Kettles Cat no. 6947

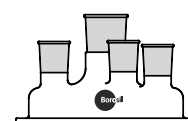
- Made of 3.3 borosilicate glass to ensure maximum resistance to mechanical breakage
- The base has a wide mouth that enables easy access for cleaning the interior
- Flanges of the base are finely ground to ensure a tight seal

Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
6948024	500	2	4891.00
6948029	1000	2	5436.00
6948030	2000	2	7062.00
6948032	4000	2	10316.00

**6949-Covers, Only for Kettles Cat No. 6947**

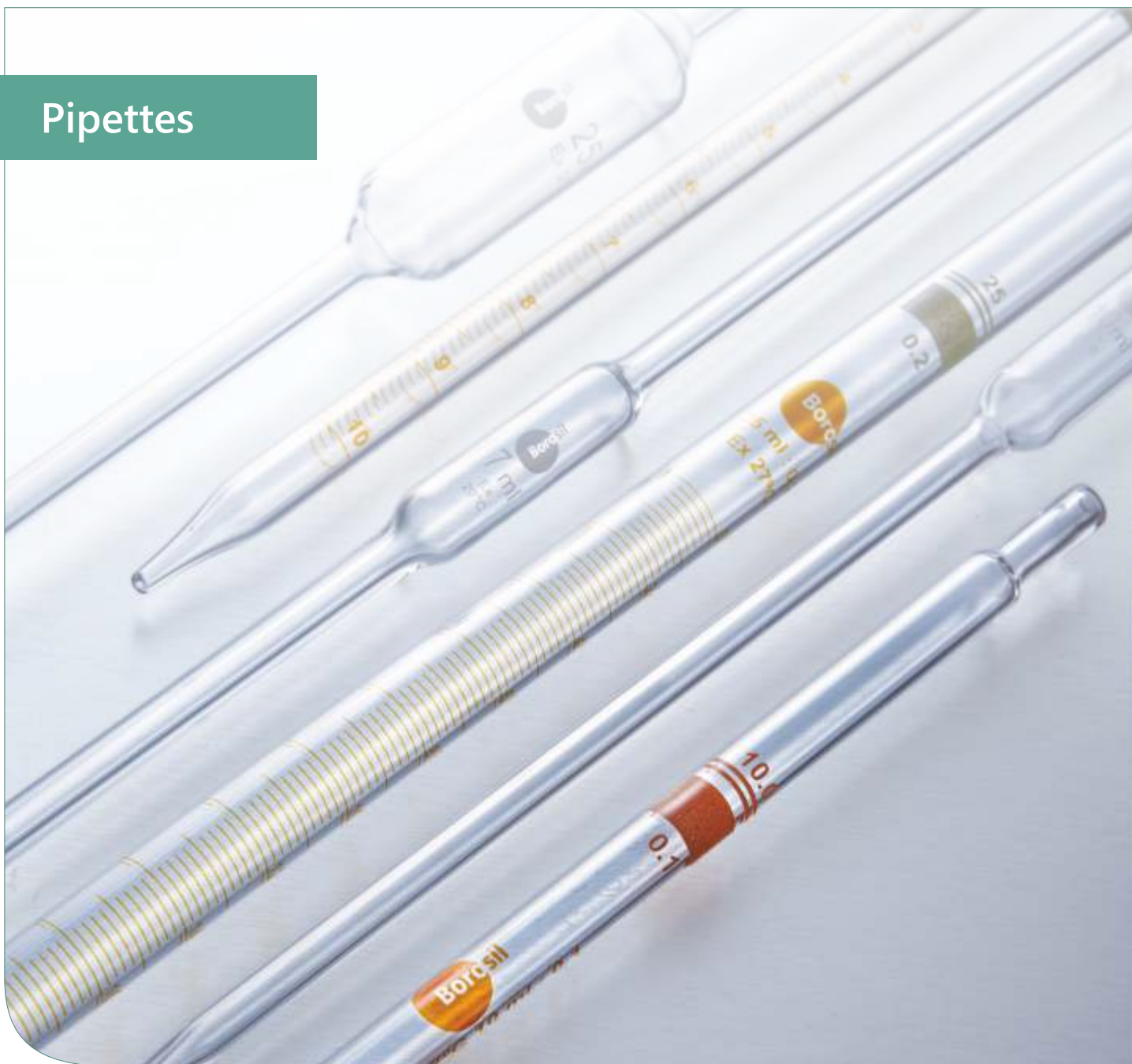
- Made of 3.3 borosilicate glass, and made of heavy construction
- The covers have openings with interchangeable joints to facilitate rapid assembly with Condensers and Stirrers
- Flanges of the covers are finely ground to ensure a tight seal

Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
6949041	500 / 1000	2	7784.00
6949042	2000 / 4000	2	9042.00



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 brand Pipettes are made of specially-selected heavy wall machine-drawn borosilicate accurate bore glass tubing. They have precision formed jets, and bevel ground ends that resist chipping. The graduation marks are made in durable white enamel or amber stain, resistant to normal laboratory reagents and repeated washing. All the Pipettes are individually measured, and then marked. The uniformity of bore ensures accuracy between any two readings. The Pipettes can be autoclaved and, if necessary, can be flamed for sterilisation.

All **Borosil** Pipettes are colour-coded at the top in accordance with ISO Standards, to facilitate easy identification. The graduation marks are screen printed. The mouth piece of Pipettes of 5 ml and above are tooled with uniform OD for easy sucking. Such tooling also imparts additional strength.

Borosil brand Pipettes are truly dependable in terms of their accuracy. They are available in both, Class A with Works Certificate as well as Class B tolerances.



Manufacturer

Nominal Capacity

Ref Temperature

Calibration
(Ex = to deliver)



Tips are carefully tooled and ensure proper flow rates

Tips edges are fire polish



All pipettes are colour coded at the top to allow fast identification

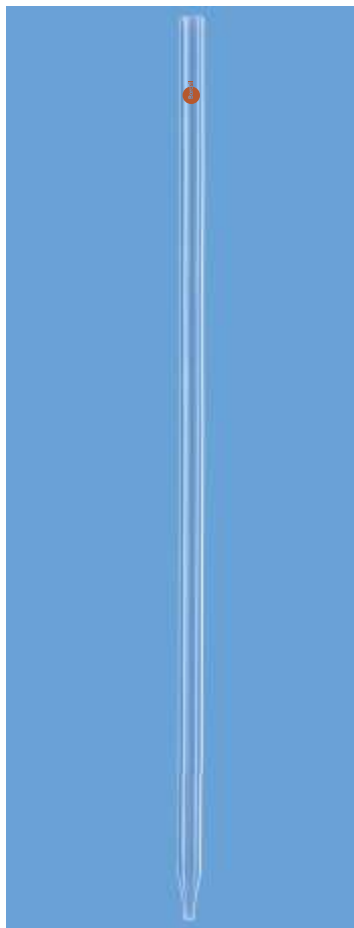


Mohr Type
Delivery from zero mark to the last graduation mark



Serological Type
Delivery from zero mark to the tip

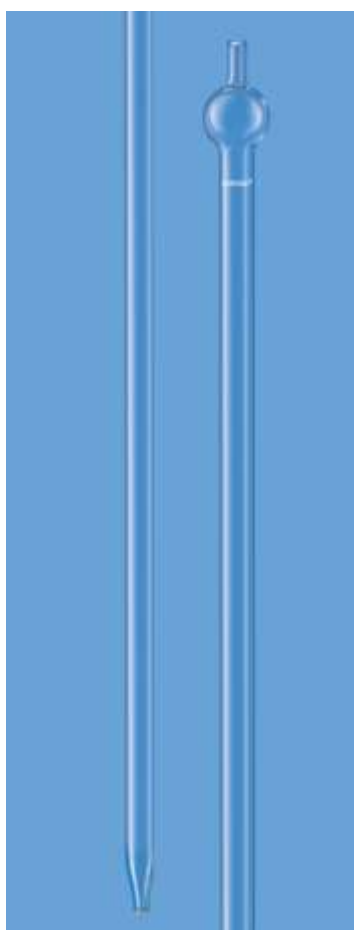
Two Rings
Two rings at the top indicate that these pipettes are calibrated to deliver their total capacity



7040 - Pipettes, Artificial Insemination, Cattle, Taper Tip

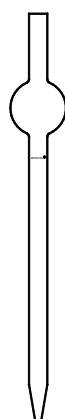
- Made of machine-drawn high quality tubing
- Sturdy, strong and safe for repeated use
- It can be sterilised and cleaned easily

Product Code	Length mm	Quantity per Case	Price / Piece ₹
7040162	450	60	78.00



7041 - Drum Sampling, Pipette

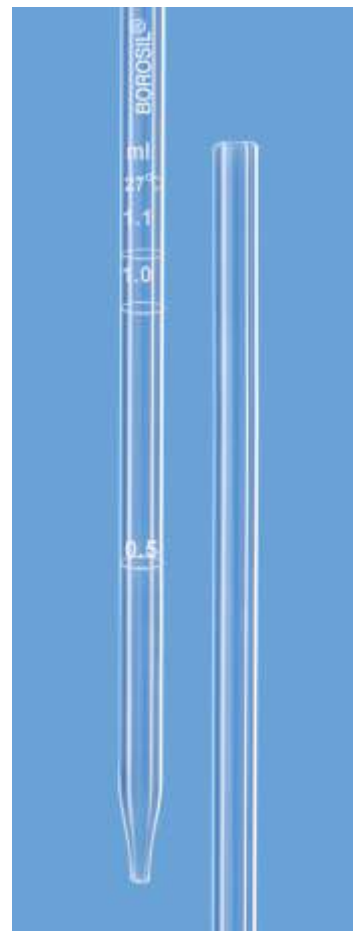
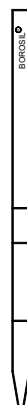
Product Code	Length mm	Quantity per Case	Price / Piece ₹
7041041	1000	4	335.00



7056 - Pipettes, Bacteriological, Graduated

- Complies with IS 2025
- These Pipettes are used for the bacteriological examination of milk
- 1.1 ml is graduated at 0.5 to 1.1 ml
- 2.2 ml is graduated at 1.0, 2.0 , 2.1 and 2.2 ml

Product Code	Capacity ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7056101	1.1	0.025	10	155.00
7056102	2.2	0.04	10	170.00

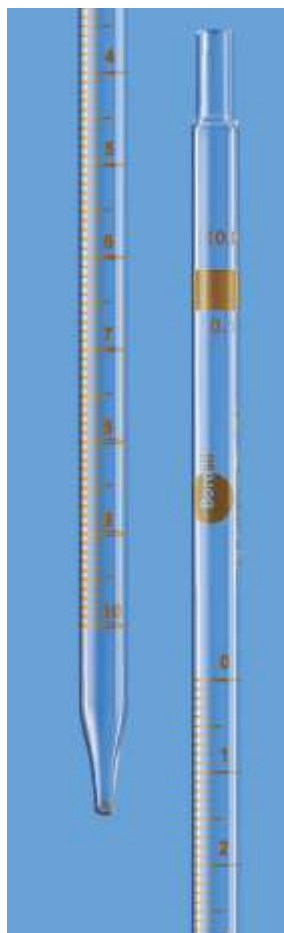


7057 - Pipettes, Gerber, Milk

- Complies with IS 1223 (Part II)
- These Pipettes are used for testing milk by the Gerber method.
- Sturdy, designed to last long
- 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 \pm ml	Quantity per Case	Price / Piece ₹
7057P10	10.75	0.03	10	155.00

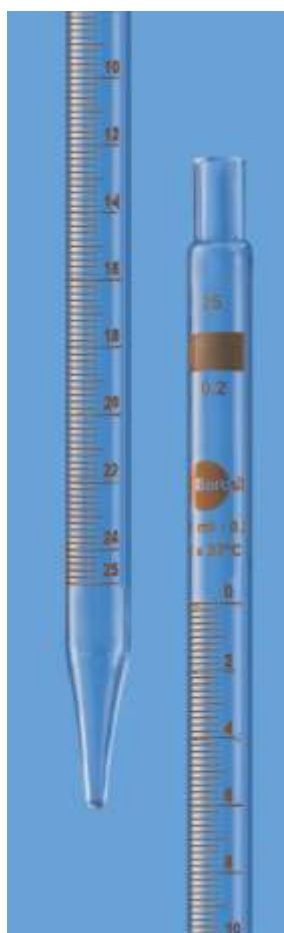




7059 - Pipettes, Measuring (Mohr Type), Class A, with Works Certificate

- Complies with IS, ISO / DIN 835
- These Pipettes are graduated for delivery from zero mark to the last graduation mark
- Sturdy, designed to last long
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Supplied with individual calibration certificate showing actual volume dispensed and providing traceability to national standards

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7059P41	0.1	0.01	0.006	10	440.00
7059P42	0.2	0.01	0.006	10	440.00
7059P01	1	0.01	0.007	10	385.00
7059P11	1	0.1	0.007	10	362.00
7059P02	2	0.02	0.010	10	403.00
7059P22	2	0.1	0.010	10	375.00
7059P05	5	0.05	0.030	10	475.00
7059P55	5	0.1	0.030	10	440.00
7059P06	10	0.1	0.05	10	505.00
7059P09	25	0.2	0.1	10	594.00



7060 - Pipettes, Measuring (Mohr Type), Class B

- Complies to IS, ISO / DIN 835
- These Pipettes are graduated for delivery from zero mark to the last graduation mark
- Sturdy, designed to last long
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7060P41	0.1	0.01	0.01	20	142.00
7060P42	0.2	0.01	0.01	20	137.00
7060P01	1	0.01	0.01	20	132.00
7060P11	1	0.1	0.01	20	125.00
7060P02	2	0.02	0.02	20	142.00
7060P22	2	0.1	0.02	20	137.00
7060P05	5	0.05	0.05	20	155.00
7060P55	5	0.1	0.05	20	148.00
7060P06	10	0.1	0.1	20	160.00
7060P09	25	0.2	0.2	20	250.00

7062 - Pipettes, Measuring (Mohr Type), Class B, White Marking

- Complies with IS, ISO / DIN 835
- These Pipettes are graduated for delivery from zero mark to the last graduation mark
- Sturdy, designed to last long
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7062P41	0.1	0.01	0.01	20	142.00
7062P42	0.2	0.01	0.01	20	137.00
7062P01	1	0.01	0.01	20	132.00
7062P11	1	0.1	0.01	20	125.00
7062P02	2	0.02	0.02	20	142.00
7062P22	2	0.1	0.02	20	137.00
7062P05	5	0.05	0.05	20	155.00
7062P55	5	0.1	0.05	20	148.00
7062P06	10	0.1	0.1	20	160.00
7062P09	25	0.2	0.2	20	250.00

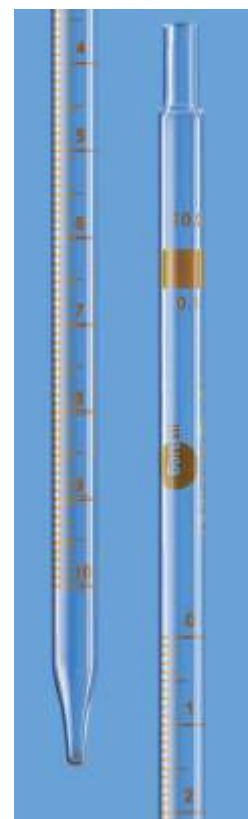


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2030 - Pipettes, Measuring (Mohr Type), Accuracy as per Class A, with Certificate, NABL Certified

- Complies with IS, ISO / DIN 835
- These Pipettes are graduated for delivery from zero mark to the last graduation mark
- Sturdy, designed to last long
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Supplied with individual NABL calibration certificate showing actual volume dispensed and providing traceability to national standards

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
2030P41	0.1	0.01	0.006	1	766.00
2030P42	0.2	0.01	0.006	1	766.00
2030P01	1	0.01	0.006	1	676.00
2030P11	1	0.1	0.006	1	628.00
2030P02	2	0.02	0.01	1	708.00
2030P22	2	0.1	0.01	1	655.00
2030P05	5	0.05	0.03	1	834.00
2030P55	5	0.1	0.03	1	766.00
2030P06	10	0.1	0.05	1	882.00
2030P09	25	0.2	0.1	1	1029.00

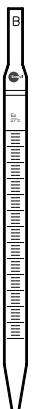
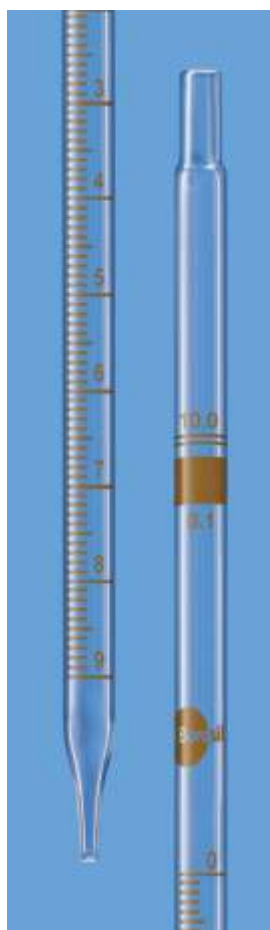




7079 - Pipettes, Serological, Class A, with Certificate

- Complies with IS, ISO / DIN 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

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7079P41	0.1	0.01	0.006	10	440.00
7079P42	0.2	0.01	0.006	10	440.00
7079P01	1	0.01	0.007	10	385.00
7079P11	1	0.1	0.007	10	362.00
7079P02	2	0.02	0.010	10	404.00
7079P22	2	0.1	0.010	10	375.00
7079P05	5	0.05	0.030	10	475.00
7079P55	5	0.1	0.030	10	440.00
7079P06	10	0.1	0.05	10	505.00
7079P09	25	0.2	0.1	10	594.00



7080 - Pipettes, Serological Class B

- Complies with IS, ISO / DIN 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

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7080P41	0.1	0.01	0.01	20	142.00
7080P42	0.2	0.01	0.01	20	137.00
7080P01	1	0.01	0.01	20	125.00
7080P11	1	0.1	0.01	20	125.00
7080P02	2	0.02	0.02	20	142.00
7080P22	2	0.1	0.02	20	137.00
7080P05	5	0.05	0.05	20	155.00
7080P55	5	0.1	0.05	20	148.00
7080P06	10	0.1	0.1	20	160.00
7080P09	25	0.2	0.2	20	250.00

7081 - Pipettes, Serological, Class A Accuracy as per USP

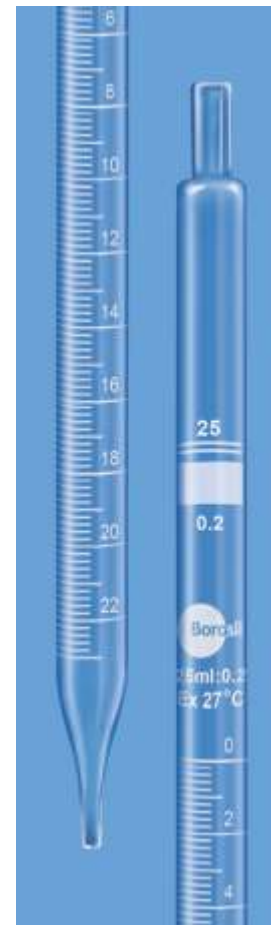
- Complies with ASTM 1293 - 02
- These Pipettes are graduated for delivery from zero mark to the last graduation mark
- Sturdy, designed to last long
- Markings are made in permanent amber stain diffused into the surface of the glass for better visibility and durability
- Supplied with individual calibration certificate showing actual volume dispensed and providing traceability to national standards

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7081P01	1	0.01	0.02	10	385.00
7081P11	1	0.1	0.02	10	362.00
7081P02	2	0.02	0.02	10	404.00
7081P22	2	0.1	0.02	10	375.00
7081P05	5	0.05	0.04	10	475.00
7079P06	10	0.1	0.06	10	505.00
7079P09	25	0.2	0.10	10	594.00

**7082 - Pipettes, Serological, (White Marking), Class B**

- Complies with IS, ISO / DIN 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 increases the visibility with dark solution

Product Code	Capacity ml	Graduation Interval ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7082P41	0.1	0.01	0.01	20	142.00
7082P42	0.2	0.01	0.01	20	137.00
7082P01	1	0.01	0.01	20	132.00
7082P11	1	0.1	0.01	20	125.00
7082P02	2	0.02	0.02	20	142.00
7082P22	2	0.1	0.02	20	137.00
7082P05	5	0.05	0.05	20	155.00
7082P55	5	0.1	0.05	20	148.00
7082P06	10	0.1	0.1	20	160.00
7082P09	25	0.2	0.2	20	250.00



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7100 - Pipettes, Transfer, Volumetric, Class A Accuracy, with Certificate

- Complies with ISO / DIN 648
- Calibrated for delivery (TD, Ex)
- Generally used for accurate measurement and decanting of liquid
- Each pipette coded with unique no. supplied with calibration certificate giving exact volume with traceability to national standards

Product Code	Capacity ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7100001	1	0.008	10	285.00
7100002	2	0.010	10	290.00
7100005	5	0.015	10	325.00
7100006	10	0.02	10	390.00
7100008	20	0.03	10	510.00
7100009	25	0.03	10	545.00
7100012	50	0.05	10	625.00
7100016	100	0.08	10	940.00



7101 - Pipettes, Transfer, Volumetric, Class A, Accuracy as per USP

- Complies with ASTM E-969-02
- Calibrated for delivery (TD, Ex)
- Generally used for accurate measurement and decanting of liquid
- Each pipette coded with unique no. supplied with calibration certificate giving exact volume with traceability to national standards

Product Code	Capacity ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7101001	1	0.006	10	290.00
7101002	2	0.006	10	320.00
7101003	3	0.01	10	335.00
7101004	4	0.01	10	335.00
7101005	5	0.01	10	340.00
7101706	6	0.01	10	380.00
7101707	7	0.01	10	380.00
7101708	8	0.02	10	380.00
7101709	9	0.02	10	380.00
7101006	10	0.02	10	390.00
7101007	15	0.03	10	440.00
7101008	20	0.03	10	510.00
7101009	25	0.03	10	545.00
7101010	30	0.03	10	545.00
7101011	40	0.05	10	570.00
7101012	50	0.05	10	625.00
7101016	100	0.08	10	940.00

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2040 - Pipettes, Transfer, Volumetric, Accuracy as per Class A, With Certificate, NABL Certified

- Complies with IS 1117, ISO DIN 648
- Calibrated for delivery (TD, Ex)
- Generally used for accurate measurement and decanting of liquid
- Each pipette coded with unique no. supplied with NABL calibration certificate giving exact volume with traceability to national standards

Product Code	Capacity ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
2040001	1	0.007	1	502.00
2040002	2	0.010	1	518.00
2040005	5	0.015	1	560.00
2040006	10	0.020	1	686.00
2040008	20	0.030	1	892.00
2040009	25	0.030	1	961.00
2040012	50	0.050	1	1072.00
2040016	100	0.080	1	1631.00





7102 - Pipettes, Transfer, Volumetric, Class B

- Complies with ISO / DIN - 648
- Calibrated for delivery
- Generally used for accurate measurement and decanting of liquid

Product Code	Capacity ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7102001	1	0.015	10	132.00
7102002	2	0.02	10	132.00
7102005	5	0.03	10	137.00
7102006	10	0.04	10	160.00
7102008	20	0.06	10	196.00
7102009	25	0.06	10	202.00
7102012	50	0.10	10	238.00
7102016	100	0.15	10	362.00



7103 - Pipettes, Transfer, Volumetric, Class B

- Complies with ASTM E-969-02
- Calibrated for delivery
- Generally used for accurate measurement and decanting of liquid

Product Code	Capacity ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7103001	1	0.012	10	137.00
7103002	2	0.012	10	148.00
7103003	3	0.02	10	148.00
7103004	4	0.02	10	148.00
7103005	5	0.02	10	148.00
7103706	6	0.03	10	160.00
7103707	7	0.03	10	160.00
7103708	8	0.04	10	160.00
7103709	9	0.04	10	160.00
7103006	10	0.04	10	160.00
7103007	15	0.06	10	196.00
7103008	20	0.06	10	196.00
7103009	25	0.06	10	202.00
7103010	30*	0.06	10	208.00
7103011	40*	0.10	10	226.00
7103012	50	0.10	10	238.00
7103016	100	0.16	10	362.00

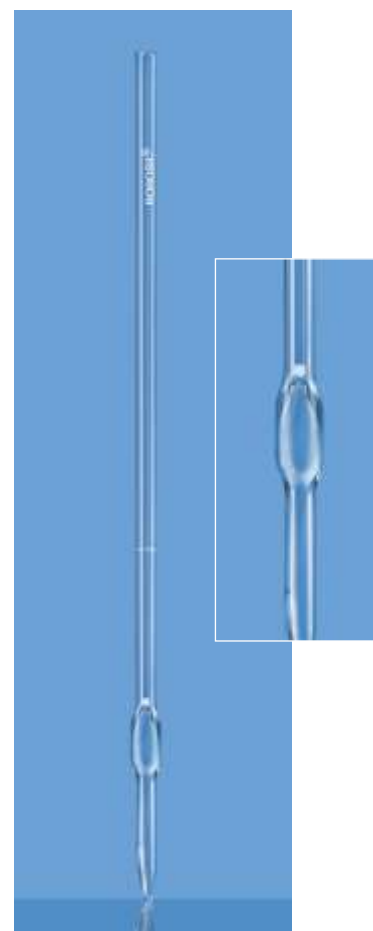
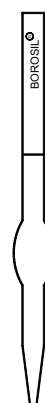
*Not covered in ASTM standards

7105 - Pipette, Ostwald - Folin

- Complies with IS 5155 : 2009

Product Code	Capacity ml	Quantity per Case	Price / Piece ₹
7105P45	0.5	10	245.00
7105001	1	10	291.00

These pipettes are generally used for blood serum tests. They are calibrated to deliver by blowing out the last drop.



7106 - Pipettes, Transfer, Volumetric, Class A, Accuracy as per USP, Amber

- Complies with ASTM E-969-02
- Calibrated for delivery (TD, Ex)
- Generally used for accurate measurement and decanting of liquid
- Each pipette coded with unique no. supplied with calibration certificate giving exact volume with traceability to national standards

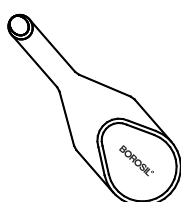
Product Code	Capacity ml	Tolerance \pm ml	Quantity per Case	Price / Piece ₹
7106001	1	0.006	10	490.00
7106002	2	0.006	10	490.00
7106005	5	0.010	10	535.00
7106006	10	0.02	10	550.00
7106008	20	0.03	10	605.00
7106009	25	0.03	10	605.00
7106012	50	0.05	10	708.00
7106016	100	0.08	10	950.00



Calibrated at
20°C



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 – 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 ₹
7200001	1	10	185.00
7200002	2	10	185.00
7200003	3	10	165.00
7200076	6	10	185.00
7200006	10	10	215.00

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 - Tubes, Blood Sugar, Folin-Wu

- 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

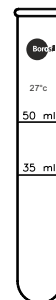
Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
7840009	25	20 x 220	20	211.00



7920 - Tubes, Digestion, Folin - Wu

- Made from uniformly drawn high quality tubing for extended service life
- The tube is calibrated at 35 ml and 50 ml

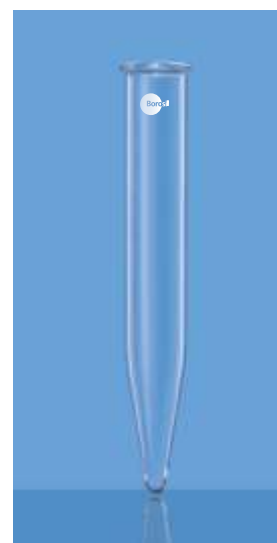
Product Code	Approx O.D. x Length	Quantity Per Case	Price / Piece ₹
7920057	25 x 200	20	148.00



8060 - Tubes, Centrifuge, Conical Bottom Plain

- Made of uniformly drawn high quality tubing for extended service life
- The higher density fraction collects in the pointed centre of the base
- 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	52.00





8080 - Tubes, Centrifuge, Conical Bottom, Graduated

- Made of uniformly drawn high quality tubing for extended service life
- The higher density fraction collects in the pointed centre of the base
- Consequently, even small amounts of solids can be collected and separated
- Graduated for greater precision

Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
8080007	15	17 x 120	30	114.00
8080012	50	29 x 140	20	228.00



8084 - Tubes, Centrifuge, Conical Bottom, Graduated, with Stopper

- Made of uniformly drawn high quality tubing for extended service life
- The higher density fraction collects in the pointed centre of the base
- Consequently, even small amounts of solids can be collected and separated
- Graduated tubes for greater precision
- Equipped with a stopper

Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
8084007	15	17 x 139	30	341.00
8084012	50	29 x 165	10	426.00



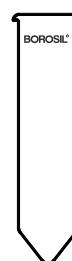
8100 - Stoppers, Interchangeable Ground Joint, Solid, Penny Head

Product Code	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
8100010	10 / 15	20	72.00
8100014	14 / 15	20	77.00
8100019	19 / 20	20	89.00
8100024	24 / 25	20	167.00

8320 - Tubes, Centrifuge, Short Conical Bottom, Pour Out, Heavy Duty, Plain

- Made of uniformly drawn high quality tubing for extended service life
- The higher density fraction collects in the pointed centre of the base
- 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 ₹
8320011	40	29 x 116	20	154.00



8340 - Tubes, Centrifuge, Short Conical Bottom, Pour Out, Heavy Duty, Graduated

- Made of uniformly drawn high quality tubing for extended service life
- The higher density fraction collects in the pointed centre of the base
- Consequently, even small amounts of solids can be collected and separated
- 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	278.00

Graduated upto 10 ml in 0.5 ml and from 10 ml to 40 ml in 1ml divisions



8400 - Stoppers, Interchangeable Ground Joint, Solid, Penny Head, Amber

Product Code	Interchangeable Joint	Quantity Per Case	Price / Piece ₹
8400010	10 / 15	20	89.00
8400014	14 / 15	20	114.00
8400019	19 / 20	20	131.00
8400024	24 / 25	20	202.00



Adapters

The Adapter tubes 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 - Adapter, Enlarging, Interchangeable Joints

- Made of borosilicate glass
- 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	256.00
8800A02	24 / 29	14 / 23	5	313.00
8800A03	24 / 29	19 / 26	5	313.00
8800A04	29 / 32	19 / 26	5	381.00
8800A05	29 / 32	24 / 29	5	381.00
8800A06	34 / 35	19 / 26	5	483.00
8800A07	34 / 35	24 / 29	5	483.00
8800A08	34 / 35	29 / 32	5	483.00



8820 - Adapter, Reduction, Interchangeable Joints

- Made of borosilicate glass
- An outer interchangeable joint at the top and a smaller inner inter-changeable joint at the base
- These joints are made to the same precision as all Borosil ground joints.

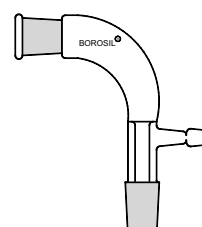
Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8820A09	29 / 32	34 / 35	5	488.00
8820A10	14 / 23	19 / 26	5	256.00
8820A11	14 / 23	24 / 29	5	313.00
8820A13	19 / 26	29 / 32	5	381.00
8820A14	19 / 26	34 / 35	5	483.00
8820A15	24 / 29	29 / 32	5	381.00
8820A16	24 / 29	34 / 35	5	483.00
8820A17	29 / 32	40 / 38	5	545.00
8820A18	19 / 26	24 / 29	5	313.00

8830 - Adapter, Receiver Bent With Vacuum Connection

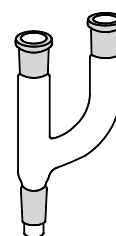
- Made of borosilicate glass
- Equipped with a vacuum connection at the receiver bent
- The joints are made to the same precision as all Borosil ground joints

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8830614	14 / 23	14 / 23	5	390.00
8830619	19 / 26	19 / 26	5	425.00
8830719	19 / 26	24 / 29	5	450.00
8830624	24 / 29	24 / 29	5	490.00
8830724	24 / 29	29 / 32	5	620.00
8830629	29 / 32	29 / 32	5	680.00

NEW

**8831 - Adapter multiple with Two Neck Parallel**

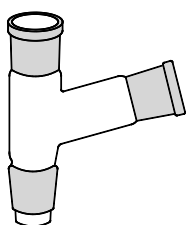
Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8831614	14 / 23	14 / 23	5	265.00
8831619	19 / 26	19 / 26	5	290.00
8831719	19 / 26	24 / 29	5	325.00
8831624	24 / 29	24 / 29	5	350.00
8831819	19 / 26	34 / 35	5	410.00
8831629	29 / 32	29 / 32	5	460.00





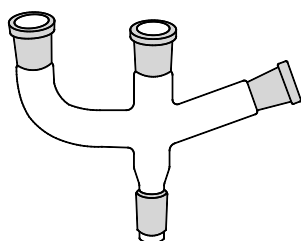
8832 - Adapter Multiple with Two Necks - one Vertical & one at 45°

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8832619	19 / 26	19 / 26	5	290.00
8832719	19 / 26	24 / 29	5	310.00
8832819	19 / 26	34 / 35	5	380.00



8833 - Adapter Multiple with three neck, two Parallel & one at 45°

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8833A19	19 / 26	24 / 29	5	425.00
8833B19	19 / 26	29 / 32	5	490.00
8833C19	19 / 26	34 / 35	5	560.00
8833D19	19 / 26	45 / 40	5	725.00





8834 - Swan Neck

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8834619	19 / 26	19 / 26	5	280.00
8834719	19 / 26	24 / 29	5	310.00
8834624	24 / 29	24 / 29	5	345.00
8834724	24 / 29	34 / 35	5	410.00



8835 - Adapter Cone / Rubber Tubing

Product Code	Socket Joint Size	Quantity Per Case	Price / Piece ₹
8835A10	10 / 19	5	150.00
8835A14	14 / 23	5	165.00
8835A19	19 / 26	5	195.00
8835A24	24 / 29	5	225.00
8835A29	29 / 32	5	310.00



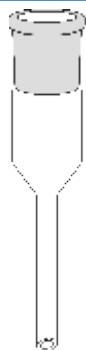


8836 - Adapter Cone/Flexible Tubing

Product Code	Socket Joint Size	Quantity Per Case	Price / Piece ₹
8836A14	14 / 23	5	160.00
8836A19	19 / 26	5	190.00
8836A24	24 / 29	5	225.00
8836A29	29 / 32	5	275.00
8836B10	10 / 19	5	180.00
8836B14	14 / 23	5	250.00
8836B19	19 / 26	5	250.00
8836B24	24 / 29	5	290.00
8836B29	29 / 32	5	350.00



8837 - Adapter Receiver Straight Socket To Rubber



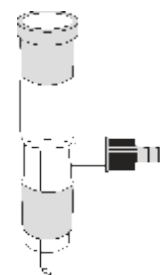
Product Code	Socket Joint Size	Quantity Per Case	Price / Piece ₹
8837A14	14 / 23	5	160.00
8837A19	19 / 26	5	190.00
8837A24	24 / 29	5	220.00
8837A34	34 / 35	5	280.00

PRICES EXCLUSIVE OF TAXES



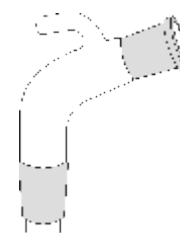
8838 - Adapter Socket to Cone

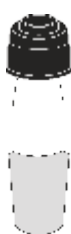
Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8838614	14 / 23	14 / 23	5	230.00
8838714	14 / 23	19 / 26	5	240.00
8838814	14 / 23	24 / 29	5	290.00
8838619	19 / 26	19 / 26	5	280.00
8838719	19 / 26	24 / 29	5	310.00
8838624	24 / 29	24 / 29	5	340.00
8838724	24 / 29	29 / 32	5	410.00



8839 - Adapter Receiver Bend With Vent

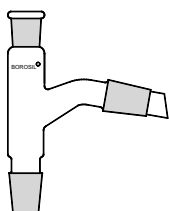
Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8839614	14 / 23	14 / 23	5	230.00
8839619	19 / 26	19 / 26	5	260.00
8839719	19 / 26	24 / 29	5	310.00
8839624	24 / 29	24 / 29	5	340.00
8839629	29 / 32	29 / 32	5	490.00





8840 - Adapter Cones Screw Thread

Product Code	Socket Joint Size	Quantity Per Case	Price / Piece ₹
8840A14	14 / 23	5	240.00
8840A19	19 / 26	5	240.00
8840A24	24 / 29	5	275.00
8840A29	29 / 32	5	360.00



8841 - Slopping Plane Still Head

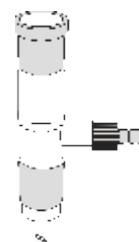
- Made from borosilicate glass
- The joints are made to the same precision as all Borosil ground joints

Product Code	Flask Cone	Cond. Cone	Socket	Quantity Per Case	Price / Piece ₹
8841610	10 / 19	10 / 19	10 / 19	5	353.00
8841614	14 / 23	14 / 23	14 / 23	5	369.00
8841619	19 / 26	19 / 26	14 / 23	5	415.00
8841819	19 / 26	19 / 26	19 / 26	5	443.00
8841724	24 / 29	19 / 26	14 / 23	5	471.00
8841624	24 / 29	24 / 29	19 / 26	5	511.00
8841729	29 / 32	19 / 26	14 / 23	5	517.00
8841629	29 / 32	29 / 32	14 / 23	5	749.00
8841634	34 / 35	19 / 26	14 / 23	5	602.00
8841734	34 / 35	24 / 29	14 / 23	5	698.00
8841834	34 / 35	34 / 35	14 / 23	5	2008.00



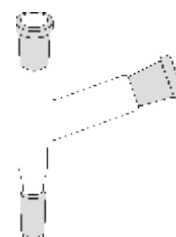
8842 - Adapter Receiver Straight With Vacuum

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8842614	14 / 23	14 / 23	5	171.00
8842619	19 / 26	19 / 26	5	202.00
8842719	19 / 26	24 / 29	5	310.00
8842624	24 / 29	24 / 29	5	335.00
8842724	24 / 29	29 / 32	5	480.00
8842629	29 / 32	29 / 32	5	540.00



8843 - Adapter Receiver With Two Neck Vertical

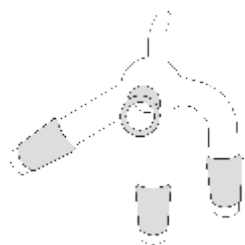
Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8843614	14 / 23	14 / 23	5	320.00
8843619	19 / 26	19 / 26	5	410.00
8843719	19 / 26	24 / 29	5	440.00





8844 - Adapter Receiver Multiple Connectivity

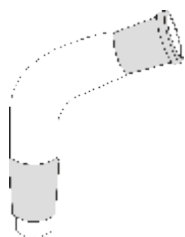
Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8844614	14 / 23	14 / 23	5	680.00
8844714	14 / 23	19 / 26	5	720.00
8844619	19 / 26	19 / 26	5	810.00



8845 - Adapter Receiver Plain Bend

- Made from borosilicate glass
- The joints are made to the same precision as all Borosil ground joints

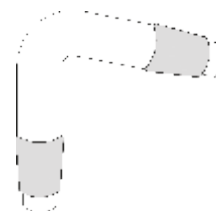
Product Code	Flask Cone	Cond. Cone	Quantity Per Case	Price / Piece ₹
8845619	19 / 26	19 / 26	5	260.00
8845719	19 / 26	24 / 29	5	280.00
8845624	24 / 29	24 / 29	5	340.00
8845629	29 / 32	29 / 32	5	490.00





8846 - Adapter recovery bend with sloping end

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8846614	14 / 23	14 / 23	5	190.00
8846724	24 / 29	14 / 23	5	260.00
8846619	19 / 26	19 / 26	5	260.00
8846824	24 / 29	19 / 26	5	270.00
8846729	29 / 32	19 / 26	5	350.00
8846734	34 / 35	19 / 26	5	380.00
8846624	24 / 29	24 / 29	5	270.00
8846834	34 / 35	24 / 29	5	420.00
8846634	34 / 35	34 / 35	5	470.00



8847 - Adapter Recovery Bend Vertical

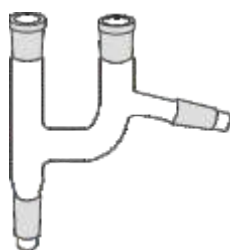
Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8847614	14 / 23	14 / 23	5	275.00
8847619	19 / 26	19 / 26	5	340.00
8847724	24 / 29	14 / 23	5	360.00
8847624	24 / 29	24 / 29	5	430.00
8847629	29 / 32	29 / 32	5	560.00





8849 - Claisen Head Sloping

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8849614	14 / 23	14 / 23	5	460.00
8849619	19 / 26	19 / 26	5	510.00
8849724	24 / 29	19 / 26	5	540.00
8849624	24 / 29	24 / 29	5	580.00
8849629	29 / 32	29 / 32	5	630.00
88493724	34 / 35	24 / 29	5	670.00



8850 - Adapter Receiver Plain, Vertical

- Made from borosilicate glass
- The joints are made to the same precision as all Borosil ground joints

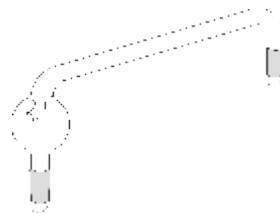
Product Code	Flask Cone	Cond. Cone	Quantity Per Case	Price / Piece ₹
8850614	14 / 23	14 / 23	5	420.00
8850719	19 / 26	24 / 29	5	460.00
8830724	24 / 29	29 / 32	5	520.00





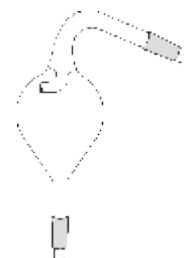
8851 - Splash head Vertical Pear Shape

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8851619	19 / 26	19 / 26	5	520.00
8851724	24 / 29	19 / 26	5	540.00
8851624	24 / 29	24 / 29	5	670.00
8851629	29 / 32	29 / 32	5	720.00



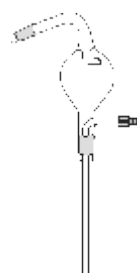
8852 - Splash Head Sloping Pear Shape

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8852619	19 / 26	19 / 26	5	490.00
8852724	24 / 29	19 / 26	5	520.00
8852624	24 / 29	24 / 29	5	560.00
8852629	29 / 32	29 / 32	5	580.00



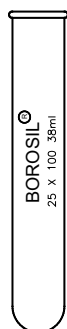
8853 - Steam distillation Heads

Product Code	Socket Joint Size	Cone Joint Size	Quantity Per Case	Price / Piece ₹
8853724	24 / 29	19 / 26	5	720.00
8853734	34 / 35	19 / 26	5	890.00
8853834	34 / 35	24 / 29	5	920.00



PRICES EXCLUSIVE OF TAXES

Test Tubes

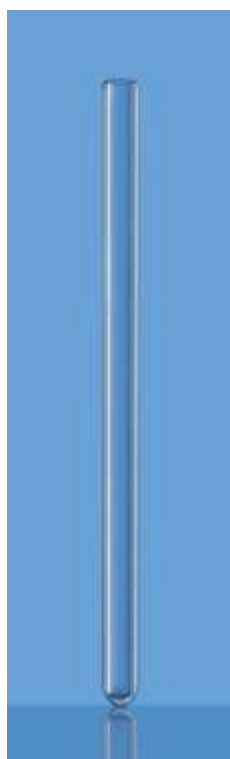


9800 - Tubes, Test, With Rim

- Complies with IS 2618, ISO / DIN 4142
- Made of borosilicate glass, designed with a round bottom
- Made thick-walled, mechanically very resistant
- High thermal shock resistance
- Designed with a rim

Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
9800U01	3	10 x 75	800	7.60
9800U02	5	12 x 75	800	7.60
9800U03	7	12 x 100	800	10.80
9800U15	4	13 x 55*	800	11.80
9800U04	13	15 x 125	800	12.90
9800U05	15	15 x 150	800	15.00
9800U06	27	18 x 150	400	16.10
9800U07	38	25 x 100	200	20.40
9800U08	55	25 x 150	200	24.70
9800U09	70	25 x 200	100	32.30
9800U10	100	32 x 200	50	48.40
9800U11	170	38 x 200	50	59.10

* IS : 3740 for tube widal



9801 - Tube for Culture collection

- Made of borosilicate glass, designed with a round bottom
- Made thick-walled, mechanically very resistant
- High thermal shock resistance
- Used for pathological tests

Product Code	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
9801U01	7 x 127	200	12.00

Used for pathological tests

9820 - Tubes, Test (Culture), Without Rim

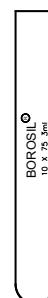
- Complies with IS 2618, ISO / DIN 4142
- Made of borosilicate glass, designed with a round bottom
- Made thick-walled, mechanically very resistant
- High thermal shock resistance
- Designed without a rim

Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
9820U16	1	7 x 60°	400	7.60
9820U01	3	10 x 75***	800	7.60
9820U02	5	12 x 75**/***	800	7.60
9820U03	7	12 x 100***	800	10.80
9820U17	8	12 x 125***	800	11.00
9820U04	13	15 x 125	800	12.90
9820U05	15	15 x 150	400	15.00
9820U12	12	16 x 100***	800	14.00
9820U18	20	16 x 150***	400	18.30
9820U06	27	18 x 150	400	16.10
9820U19	25	19 x 125***	400	18.30
9820U07	38	25 x 100	200	20.40
9820U08	55	25 x 150***	200	24.70
9820U09	70	25 x 200	100	32.30
9820U10	100	32 x 200	50	48.40
9820U11	170	38 x 200	50	59.13

* IS:3740 - 1966 for DURHAM FERMENTATION

** IS:3740 - 1966 for KAHN & WASSERMAN TEST

*** IS:3740 - 1966 for BACTERIOLOGICAL TEST

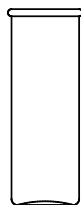
**9821 - Tube Flat Bottom without RIM**

- Made of borosilicate glass, designed with a flat bottom
- High thermal shock resistance
- Designed without a rim
- 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	12.00



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9822 - Tube Flat Bottom with Rim

- Made of borosilicate glass, designed with a flat bottom
- High thermal shock resistance
- Designed without a rim
- Used for pathological tests and disintegration apparatus

Product Code	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
9822U06	18 x 138	400	30.00
9822U07	18 x 55	100	18.00
9822U04	14 x 110	800	28.00



9830 - Tubes, Test Graduated, with interchangeable Stopper

- Made of borosilicate glass, designed with a round bottom
- 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 / 15	10	130.00
9830007	15	15 x 150	14 / 15	10	140.00
9830008	20	19 x 160	14 / 15	10	150.00
9830010	30	25 x 155	19 / 26	10	200.00
9830012	50	25 x 200	19 / 26	10	230.00
9830016	100	34 x 210	24 / 25	10	360.00

9835 - Tubes, COD Digestion Tube

- Made from thick walled, mechanically very resistance borosilicate glass
- Used in COD Disintegration

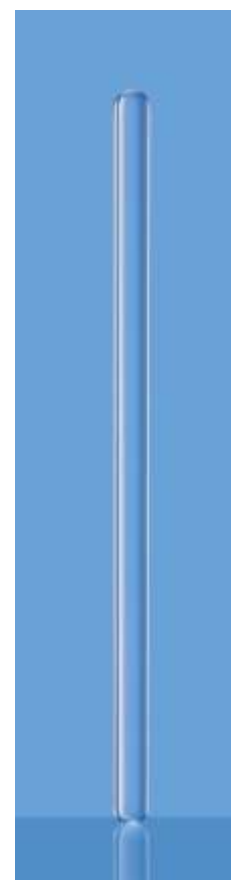
Product Code	Approx O. D. x Height mm	Quantity Per Case	Price / Piece ₹
9835A01	36 x 205	10	381.00
9835001	39 x 205	10	381.00

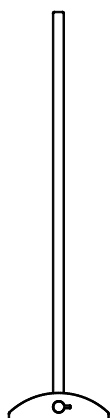
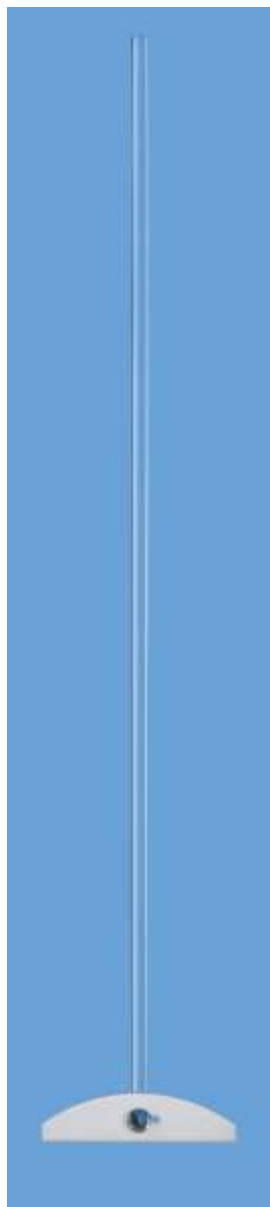


9850 - Stirrer

- Ideal for very sensitive samples
- Made of polished 3.3 borosilicate glass

Product Code	Approx O.D. x Length mm	Quantity Per Case	Price/Piece ₹
9850107	7 x 150	20	17.00
9850207	7 x 205	20	23.00
9850307	7 x 255	20	28.00
9850407	7 x 305	20	33.00
9850109	9 x 150	20	28.00
9850209	9 x 205	20	33.00
9850309	9 x 255	20	44.00
9850409	9 x 305	20	44.00





9860 - Stirrers, with PTFE Blade

- Ideal for very sensitive samples
- Made of polished 3.3 borosilicate glass
- Provided with chemically inert PTFE blade
- Application in synthetic laboratory

Product Code	Description	Quantity Per Case	Price / Piece ₹
9860065	Shaft Dia 6 mm & Length 450 mm Blade Width 50 mm, Suitable for 500 ml Flask, Socket 19 / 26	10	303.00
9860071	Shaft Dia 6 mm & Length 450 mm Blade Width 75 mm, Suitable for 1000 ml Flask, Socket 24 / 29	10	378.00
9860077	Shaft Dia 8 mm & Length 600 mm Blade Width 100 mm, Suitable for 2000 ml Flask, Socket 34 / 35	5	482.00
9860080	Shaft Dia 8 mm & Length 600 mm Blade Width 125 mm, Suitable for 5000 ml Flask, Socket 34 / 35	5	530.00
9860081	Shaft Dia 10 mm & Length 750 mm Blade Width 150 mm, Suitable for 10000 ml Flask, Socket 55 / 44	5	946.00
9860087	Shaft Dia 10 mm & Length 750 mm Blade Width 200 mm, Suitable for 20000 ml Flask, Socket 55 / 44	5	1059.00

9900 - Tubes, Culture, Media, Round Bottom, with PP Screw Cap and Liner

- Made of borosilicate glass, designed with a round bottom
- The ideal replacement for media culture bottles
- Designed with special caps to facilitate handling and sealing
- The caps have a PTFE liner

Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
9900005	5	16 x 75	100	40.00
9900006	10	16 x 125	100	46.00
9900010	30	25 x 100	100	63.00
9900012	50	25 x 150	50	69.00
9900013	60	25 x 200	50	69.00
9900018	150	38 x 200	50	284.00

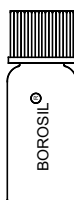


9901 - Tubes, Culture, Amber, Media, Round Bottom, with PP Screw Cap and PTFE Liner

- Made of borosilicate glass, designed with a round bottom
- The ideal replacement for media culture bottles
- The uniform Amber colour is highly durable and has high chemical resistance.
- Designed with special caps to facilitate handling and sealing
- The caps have a PTFE liner

Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
9901005	5	16 x 75	100	80.00
9901006	10	16 x 125	100	109.00
9901010	30	25 x 100	100	126.00
9901013	60	25 x 200	50	159.00
9901018	150	38 x 200	50	727.00





9910 - Tubes, Culture, Media, Flat Bottom, with PP Screw Cap and PTFE Liner

- Made of borosilicate glass, designed with a flat bottom for convenient storage
- The ideal replacement for Bijou, Mc Cartney and universal bottles
- Designed with special caps to facilitate handling and sealing
- The caps have a PTFE liner

Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
9910005	5	16 x 50	100	40.00
9910006	10	25 x 50	100	52.00
9910007	15	25 x 57	100	46.00
9910008	20	25 X 72	100	59.00
9910010	30	25 x 95	100	63.00
9910012	50	25 x 145	50	69.00



9911 - Tubes, Culture, Amber, Media, Flat Bottom, with PP Screw Cap and PTFE Liner

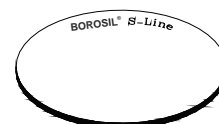
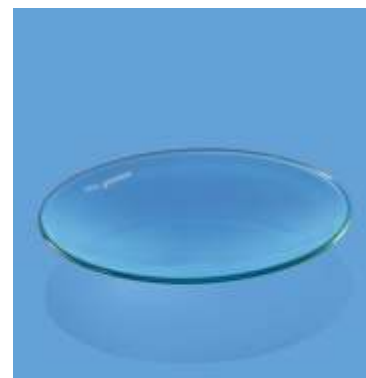
- Made of borosilicate glass, designed with a flat bottom for convenient storage
- The ideal replacement for Bijou, Mc Cartney and universal bottles
- Designed with special caps to facilitate handling and sealing
- The uniform Amber colour is highly durable and has high chemical resistance.
- The caps have a PTFE liner

Product Code	Capacity ml	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
9911005	5	16 x 50	100	86.00
9911006	10	25 x 50	100	114.00
9911007	15	25 x 57	100	114.00
9911008	20	25 x 72	100	134.00
9911010	30	25 x 95	100	142.00

9986 - Watch Glasses, Borosil S - Line

- Made of soda 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	Capacity mm	Quantity per Case	Price / Piece ₹
9986072	80	50	69.00
9986077	100	50	80.00
9986079	120	20	91.00
9986081	150	20	119.00



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 dispersion, gas washing.
3	15-40	Filtration of fine grain precipitates. Analytical 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 100 kN / m² (15 psi).

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**

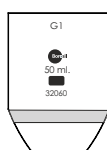
Alumina or silica residues :

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.



32060 - Crucible, Gooch Type, 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	328.00
3206607	15	2	20	50	10	328.00
3206707	15	3	20	50	10	328.00
3206807	15	4	20	50	10	328.00
3206907	15	5	20	50	10	411.00
3206010	30	1	30	60	10	444.00
3206610	30	2	30	60	10	444.00
3206710	30	3	30	60	10	444.00
3206810	30	4	30	60	10	444.00
3206910	30	5	30	60	10	549.00
3206012	50	1	40	65	10	510.00
3206612	50	2	40	65	10	510.00
3206712	50	3	40	65	10	510.00
3206812	50	4	40	65	10	510.00
3206912	50	5	40	65	10	644.00



32061 - Tubes, Filter, for Gooch Crucibles (Herarchi) Funnel

- Made of 3.3 borosilicate glass
- Suitable for use with Borosil's Filtering Crucibles Gooch type with Sintered Disc

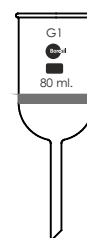
Product Code	Approx O.D. x Length mm	Quantity Per Case	Price / Piece ₹
3206027	27 x 150	5	139.00
3206036	36 x 160	5	194.00
3206156	56 x 170	10	299.00

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.

36060 - Funnels, Buchner Type, 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	471.00
3606658	35	2	30	130	8	5	471.00
3606758	35	3	30	130	8	5	471.00
3606858	35	4	30	130	8	5	471.00
3606958	35	5	30	130	8	5	554.00
3606072	80	1	35	142	8	5	904.00
3606672	80	2	35	142	8	5	904.00
3606772	80	3	35	142	8	5	904.00
3606872	80	4	35	142	8	5	904.00
3606972	80	5	35	142	8	5	1103.00
3606020	200	1	68	215	13	5	1424.00
3606620	200	2	68	215	13	5	1424.00
3606720	200	3	68	215	13	5	1424.00
3606820	200	4	68	215	13	5	1424.00
3606920	200	5	68	215	13	5	1646.00
3606024	500	1	92	258	17	2	3346.00
3606624	500	2	92	258	17	2	3346.00
3606724	500	3	92	258	17	2	3346.00
3606824	500	4	92	258	17	2	3346.00
3606924	500	5	92	258	17	2	4383.00
3606029	1000	1	124	276	19	2	6483.00
3606629	1000	2	124	276	19	2	6483.00
3606729	1000	3	124	276	19	2	6483.00
3606829	1000	4	124	276	19	2	6483.00
3606929	1000	5	124	276	19	2	8289.00

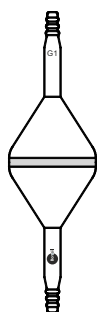




39580 - Tubes, Sealed, With Reduced Ends, With Sintered Disc, (Pipeline Filters)

- Made of 3.3 borosilicate glass
- Generally used in inline filtration of gas lines to remove solid impurities

Product Code	Capacity ml	Porosity Grade	Dia of Disc mm	Approx Height mm	Stem Dia mm	Quantity Per Case	Price / Piece ₹
3958010	30	1	30	125	9	5	527.00
3958610	30	2	30	125	9	5	527.00
3958710	30	3	30	125	9	5	527.00
3958810	30	4	30	125	9	5	527.00
3958910	30	5	30	125	9	5	644.00
3958014	65	1	65	210	13	5	1923.00
3958614	65	2	65	210	13	5	1923.00
3958714	65	3	65	210	13	5	1923.00
3958814	65	4	65	210	13	5	1923.00
3958914	65	5	65	210	13	5	2465.00
3958015	90	1	90	320	17	5	3884.00
3958615	90	2	90	320	17	5	3884.00
3958715	90	3	90	320	17	5	3884.00
3958815	90	4	90	320	17	5	3884.00
3958915	90	5	90	320	17	5	5003.00



Boron Free Transparent Silica

Borosil Fused Silica 99.95% SiO₂ 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 cristobalite 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.

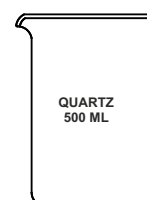
Heating fused quartz to elevated temperatures causes SiO₂ to undergo dissociation. Consequently, when flame-working fused quartz, there is a brand of haze or smoke which forms just outside the intensely heated region. This haze presumably forms because the SiO₂ recombines with oxygen from the air (and perhaps water) and condenses as extremely small particles of amorphous SiO₂.

Electrical resistivity (at 350°C)		7 x 10 ⁷ ohm cm	
Low Expansion and constancy of Weight		Average co-efficient of expansion 0°C to 800°C	
		5.5 X 10 ⁻⁷ / °C	
Softening Point	1685°C	Annealing Point	1200°C
Operating Temp (continuous)	1050°C	Strain Point	1120°C
Operating Temp (intermittent)	1350°C	Working Temp	1950°C

1002 - Beakers, Low Form, 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	1095.00
1002012	50	40 x 58	5	1624.00
1002016	100	50 x 75	5	2506.00
1002018	150	55 x 88	5	3235.00
1002021	250	70 x 95	1	4847.00
1002024	500	85 x 115	1	9285.00
1002029	1000	105 x 145	1	16150.00



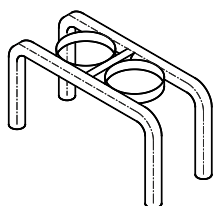
PRICES EXCLUSIVE OF TAXES



3175 - 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	1454.00
3175042	4 Holes	76	1	2840.00



3185 - Dishes / Basins, 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	949.00
3185042	75 x 27	45	5	2694.00
3185044	85 x 35	70	5	3375.00
3185045	95 x 36	85	1	5588.00
3185016	100 x 38	100	1	6730.00
3185046	115 x 47	200	1	10233.00



3186 - 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	890.00

Prices for other sizes on request

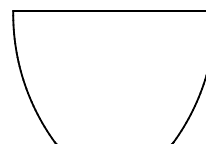


PRICES EXCLUSIVE OF TAXES

3190 - Crucibles, Without Lid

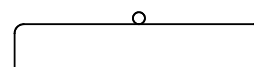
- Accurate dimensions
- Longer life span
- Fine finish
- Sturdiness
- Capacity: 5-200 ml

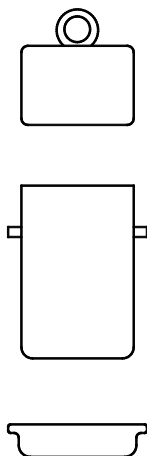
Product Code	Capacity ml	Approx O.D. x Height mm	Quantity Per Case	Price / Piece ₹
3190007	15	40 x 26	10	517.00
3190009	25	47 x 30	10	754.00
3190012	50	57 x 35	10	1210.00
3190015	80	69 x 45	10	1945.00
3190018	150	80 x 54	5	3593.00

**3191 - Lids For Crucibles**

- Accurate dimension
- Longer life span
- Fine finish
- Sturdiness

Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
3191007	15	10	517.00
3191009	25	10	723.00
3191012	50	10	1131.00
3191015	80	10	1885.00





Volatile Matter Crucibles

- Dimensional accuracy
- Tough construction
- Durability
- Comes with Lid and Plunger

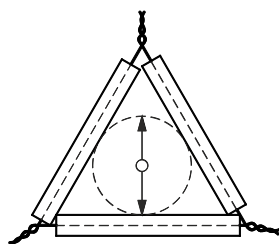
Product Code	Catalogue No.	Item	Dimension mm	Quantity Per Case	Price / Piece ₹
3195041	3195	Crucible	25 x 38	5	1459.00
3196041	3196	Plunger	12.5	5	468.00
3197041	3197	Lid		5	425.00



3198 - Silica Triangles on Nichrome (Translucent)

- Longer life span
- Sturdiness
- Seamless finish

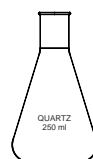
Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
3198007	15	10	182.00
3198009	25	10	244.00
3198012	50	10	468.00
3198015	80	5	682.00



4984 - Quartz Conical Flask

- Suitable for digestion of samples with concentrated acid (except HF)
- Ideal for estimation of boron in soil
- Withstand sudden heating & cooling

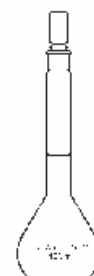
Product Code	External Dimension		Capacity ml	Price / Piece ₹
	Height mm	Diameter mm		
4984016	64	105	100	4900.00
4984018	72	124	150	6100.00
4984021	85	140	250	7700.00



5644 - Flasks Volumetric, Quartz

- Dimensional accuracy
- Sturdiness
- Durability
- Perfect finish

Product Code	Capacity ml	Quantity Per Case	Price / Piece ₹
5644005	5	1	4250.00
5644006	10	1	2432.00
5644009	25	1	2877.00
5644012	50	1	3454.00
5644016	100	1	4457.00
5644021	250	1	6464.00
5644024	500	1	8622.00
5644029	1000	1	17244.00



8600 - Quartz Circular Capsule for Coal Analysis

- Suitable for analysis of ash content in Coal analysis
- Withstand sudden heating & cooling

Product Code	External Dimension		Price / Piece ₹
	Height mm	Diameter mm	
8600Q01	14	48	1210.00
8600Q02	15	54	1375.00



*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.

BOROSIL®

Chromatography Vials & Closures

“for Labs where
compliance matters”



Why should I choose BOROSIL® Vials ?

No matter which make of HPLC instrument you use, it is **critical that the 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.**

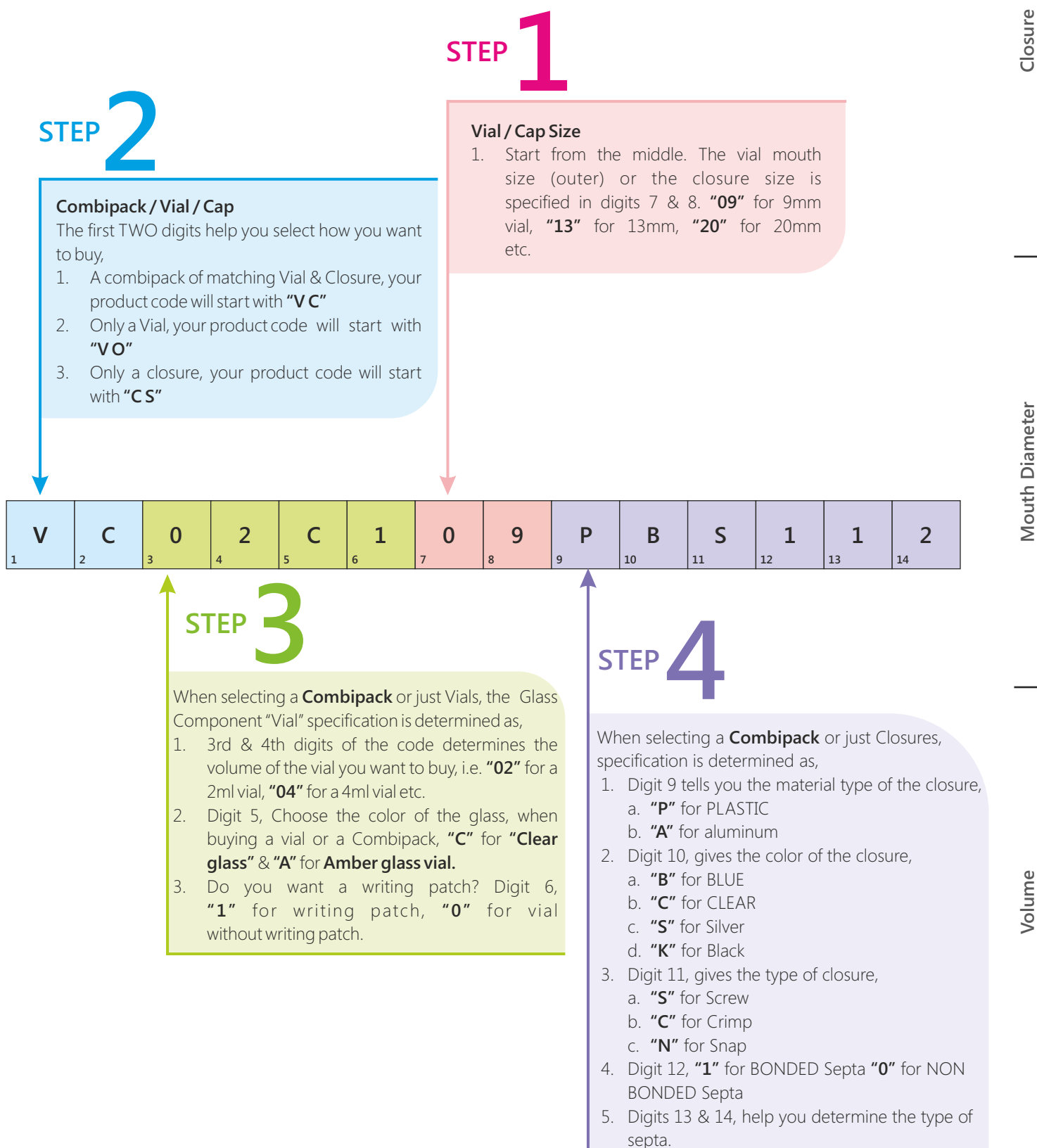


Borosil certified Vials are manufactured in an ISO 9001 certified facility, in accordance with US and European Pharmacopoeia.

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!



Sample Vials & Closures

9mm Screw or Universally Compatible Vials

VIAL : 2ml, 12 X 32mm Screw Top Vial. Clear or **Amber** Glass

9 mm screw thread vials are the most popular ones. They are also known as universally compatible Vials. 9 mm screw top Vials combine the excellent autosampler handling of a crimp cap profile with the ease of a screw cap. This means that they can be used in almost any autosampler.

THE CLOSURE : BOROSIL certified pre-assembled PP screw caps & Septa.

Choose the best combination for your application.

PP Screw Cap with,

- **PTFE / SILICONE** Septa
- **Pre-Slit PTFE/ SILICONE** Septa
- **BONDED PTFE/ SILICONE** Septa
- **BONDED Pre-slit PTFE/ SILICONE** Septa

Screw Cap

9 mm



To order only 9mm Screw Vials

Product Code	Description	Price Case Lot of 10 x100 ₹
VO02C00900S000	9mm, 2ml, 12 X 32, Clear Glass Screw Top Vial	10460.00
VO02C10900S000	9mm, 2ml, 12 X 32, Clear Glass Screw Top Vial With Write On Patch	12510.00
VO02A00900S000	9mm, 2ml, 12 X 32, Amber Glass Screw Top Vial	13820.00
VO02A10900S000	9mm, 2ml, 12 X 32, Amber Glass Screw Top Vial, With Write On Patch	16830.00

To order only 9mm Screw Caps with Septa

Product Code	Description	Price Case Lot of 10 x100 ₹
CS000009PBS011	9mm, PTFE - Silicone Septa in a Blue Screw Cap	12140.00
CS000009PBS012	9mm, Pre-slit PTFE-Silicone Septa in a Blue Screw Cap	13690.00
CS000009PBS111	9mm, PTFE-Silicone Septa BONDED to a Blue Screw Cap	14780.00
CS000009PBS112	9mm, Pre-Slit TYPE-A PTFE-Silicone Septa BONDED to a Blue Screw Cap	15560.00
CS000009PBS113	9mm, Pre-Slit TYPE-B PTFE-Silicone Septa BONDED to a Blue Screw Cap	16990.00
CS000009PBS115	9mm, Pre-Slit BONDED Pre-slit Red PTFE-White Silicone Septa	16990.00
CS000009PKS001	9mm, Screw Closed Top Screw Caps with PTFE Lining	14010.00

2 ml



Sample Vials & Closures

9mm Screw or Universally Compatible Vials

To order Combipack **Of 9mm Clear Screw Vials With Matching Caps**

Product Code	Description	Price / 100 pcs Case Lot of 10 x100 ₹
VC02C009PBS011	Combipack of 9mm Clear Screw Vials & PTFE-Silicone Septa	22600.00
VC02C109PBS011	Combipack of 9mm Clear Screw Vial With Write On Patch & PTFE-Silicone Septa in a Blue Screw Cap	24650.00
VC02C009PBS012	Combipack of 9mm Clear Screw Vials & Pre-Slit PTFE-Silicone Septa	24150.00
VC02C109PBS012	Combipack of 9mm Clear Screw Vials With Write On Patch & Pre-Slit PTFE-Silicone Septa	26200.00
VC02C009PBS111	Combipack of 9mm Clear Screw Vials & PTFE- Silicone Septa BONDED to a Blue Screw Cap	25240.00
VC02C109PBS111	Combipack of 9mm Clear Screw Vials With Write On Patch & PTFE-Silicone Septa BONDED to a Blue Screw Cap	27290.00
VC02C009PBS112	Combipack of 9mm Clear Screw Vials & Type-A Pre-Slit PTFE-Silicone Septa BONDED to a Blue Screw Cap	26020.00
VC02C109PBS112	COMBIPack of 9mm Clear Screw Vials With Write On Patch & Type-A Pre-Slit PTFE-Silicone Septa BONDED to a Blue Screw Cap	28070.00
VC02C009PBS113	Combipack of 9mm Clear Screw Vials & Type-B Pre-Slit PTFE-Silicone Septa BONDED to a Blue Screw Cap	27450.00
VC02C109PBS113	Combipack of 9mm Clear Screw Vials With Write On Patch & Type-B Pre-Slit PTFE-Silicone Septa BONDED to a Blue Screw Cap	29500.00
VC02C009PBS115	Combi pack of 9mm 12X32 Clear Screw Vials and 9mm Screw Caps with BONDED Pre-Slit PTFE-Silicone Septa	27450.00
VC02C109PBS115	Combi pack of 9mm 12X32 Clear Screw Vials with Write on Patch and 9mm Screw Caps with BONDED Pre-Slit PTFE-Silicone Septa	29500.00
VC02C009PKS001	Combi pack of 9mm 12X32 Clear Screw Vials and 9mm Screw Closed Top Screw Caps with PTFE Lining	24470.00
VC02C109PKS001	Combi pack of 9mm 12X32 Clear Screw Vials with Write On Patch and 9mm Screw Closed Top Screw Caps with PTFE Lining	26520.00



Screw Cap

9 mm

2 ml



Sample Vials & Closures

9mm Screw or Universally Compatible Vials

To order **Combipacks Of 9mm Amber Screw Vials With Matching Caps**

Product Code	Description	Price / 100 pcs Case Lot of 10 x100 ₹
VC02A009PBS011	Combipack of 9mm Amber Screw Vials & PTFE-Silicone Septa	25960.00
VC02A109PBS011	Combipack of 9mm Amber Screw Vial With Write On Patch & PTFE-Silicone Septa in a Blue Screw Cap	28970.00
VC02A009PBS012	Combipack of 9mm Amber Screw Vials & Pre-Slit PTFE-Silicone Septa	27510.00
VC02A109PBS012	Combipack of 9mm Amber Screw Vials With Write On Patch & Pre-Slit PTFE-Silicone Septa	30520.00
VC02A009PBS111	Combipack of 9mm Amber Screw Vials & PTFE-Silicone Septa BONDED to a Blue Screw Cap	28600.00
VC02A109PBS111	Combipack of 9mm Amber Screw Vials With Write On Patch & PTFE-Silicone Septa BONDED to a Blue Screw Cap	31610.00
VC02A009PBS112	Combipack of 9mm Amber Screw Vials & Type-A Pre-Slit PTFE-Silicone Septa BONDED to a Blue Screw Cap	29380.00
VC02A109PBS112	Combipack of 9mm Amber Screw Vials With Write On Patch & Type-A Pre-Slit PTFE-Silicone Septa BONDED to a Blue Screw Cap	32390.00
VC02A009PBS113	Combipack of 9mm Amber Screw Vials & Type-B Pre-Slit PTFE-Silicone Septa BONDED to a Blue Screw Cap	30810.00
NEW VC02A109PBS113	COMBIPack of 9mm Amber Screw Vials With Write On Patch & Type-B Pre-Slit PTFE-Silicone Septa BONDED to a Blue Screw Cap	33820.00
NEW VC02A009PKS115	Combipack of 9mm 12 x 32 Amber Screw Vials and 9mm Screw Caps with BONDED Pre-Slit PTFE-Silicone Septa	30810.00
NEW VC02A109PKS115	Combipack of 9mm 12 x 32 Amber Screw Vials with Write On Patch and 9mm Screw Caps with BONDED Pre-Slit PTFE-Silicone Septa	33820.00
NEW VC02A009PKS001	Combipack of 9mm 12 x 32 Amber Screw Vials and 9mm Screw Closed Top Screw Caps with PTFE Lining	27830.00
VC02A109PKS001	Combipack of 9mm 12 x 32 Amber Screw Vials with Write On Patch and 9mm Screw Closed Top Screw Caps with PTFE Lining	30840.00



Screw Cap

9 mm

2 ml

11mm Snap Vials

VIAL: 2ml, 12 X 32mm Snap Top Vial. Clear or Amber Glass

Snap top Vials and caps are the simple, efficient way to ensure a secure seal without crimping. Snap caps provide a secure seal that minimises evaporation even with volatile samples. Snap caps are often more convenient than crimp caps as they can easily be applied and removed by hand. An audible 'click' reinforces that a secure seal has been ensured, and that the cap is correctly aligned.

THE CLOSURE:

For quick and easy use, Borosil caps and septa are pre-assembled. This saves your time and reduces the risk of contamination during assembly. As easy as 'push-on, pull-off', the secure seal Borosil snap caps have are clearly advantages over the loose fit of other snap caps. Crimp caps can also be used with Borosil's wide opening snap top Vials.

To order only 11mm Snap Vials

Product Code	Description - 100 /pk	Price / 100 pcs Case Lot of 10x100 ₹
VO02C01100N000	11mm, 2ml Clear Glass Snap Vial	8290.00
VO02C11100N000	11mm, 2ml Clear Glass Snap Vial With Write On Patch	8780.00
VO02A01100N000	11mm, 2ml Amber Glass Snap Vial	10630.00
VO02A11100N000	11mm, 2ml Amber Glass Snap Vial, With Write On Patch	10880.00



To order only 11mm Snap Caps with Septa

Product Code	Description 100 / pk	Price / 100 pcs Case Lot of 10x100 ₹
CS000011PCN011	11mm, PTFE-Silicone Septa in a Clear Snap Cap	12300.00
CS000011PCN012	11mm, Pre-slit PTFE-Silicone Septa in a Clear Snap Cap	14000.00



Snap

11 mm

2 ml

11mm Snap Vials

To order **11mm Combipacks Of Clear Snap Vials With Matching Caps**

Product Code	Description	Price
		Case Lot of 10x100 ₹
VC02C011PCN011	Combipack of 11mm Clear Snap Vial & PTFE-Silicone Septa in a Clear Snap Cap	20590.00
VC02C011PCN012	Combipack of 11mm Clear Snap Vial & Pre-Slit PTFE-Silicone Septa in a Clear Snap Cap	22290.00
VC02C111PCN011	Combipack of 11mm Clear Snap Vial With Write On patch & PTFE-Silicone Septa in a Clear Snap Cap	21080.00
VC02C111PCN012	Combipack of 11mm Clear Snap Vial With Write On Patch & Pre-Slit PTFE-Silicone Septa in a Clear Snap Cap	22780.00



Snap

11 mm

To order **Combipacks Of 11mm Snap Amber Vials With Matching Caps**

Product Code	Description / 100 pk	Price
		Case Lot of 10x100 ₹
VC02A011PCN011	Combipack of 11mm Amber Snap Vial & PTFE-Silicone Septa in a Clear Snap Cap	22930.00
VC02A011PCN012	Combipack of 11mm Amber Screw Vial & Pre-Slit PTFE-Silicone Septa in a Clear Snap Cap	24630.00
VC02A111PCN011	Combipack of 11mm Amber Snap Vial With Write On Patch & PTFE-Silicone Septa in a Clear Snap Cap	23180.00
VC02A111PCN012	Combipack of 11mm Amber screw vial with Write On Patch & Pre-slit PTFE-Silicone septa in a Clear Snap Cap	24880.00

2 ml

11mm Crimp Vials

VIAL : 2ml, 12 X 32mm Crimp Top Vial. Clear or **Amber** Glass

Borosil Crimp Vials are made to exacting dimensions for unparalleled autosampler compatibility, including a precision-formed crown for better crimping.

THE CLOSURE:

Crimp caps ensure the tightest seal, reducing the possibility of sample evaporation. The 12 x 32 mm Crimp Vials and 11 mm aluminium crimp caps are economical and easy to use. The wide opening crimp cap provides a larger target area for enhanced autosampler needle accuracy.

Choose from Septa best suited to your application.

PTFE-Silicone or Pre-slit PTFE Silicone.

To order only **11mm Crimp Vials**

Product Code	Description - 100 /pk	Price Case Lot of 10 x 100 ₹
VO02C01100C000	11mm, 2ml Clear Glass Crimp Vial	9190.00
VO02C11100C000	11mm, 2ml Clear Glass Crimp Vial With Write On Patch	9930.00
VO02A01100C000	11mm, 2ml Amber Glass Crimp Vial	10770.00
VO02A11100C000	11mm, 2ml Amber Glass Crimp Vial, With Write On Patch	13220.00



To order only **11mm Crimp Caps with Septa**

Product Code	Description 100 / pk	Price Case Lot of 10 x 100 ₹
CS000011ASC011	11mm, PTFE - Silicone Septa in a Aluminum Crimp Cap	11200.00
CS000011ASC012	11mm, Pre-Slit PTFE-Silicone Septa in a Aluminum Crimp Cap	12760.00
NEW CS000011ASC021	11mm Aluminum Crimp Caps with PTFE-Orange Silicone Septa	8710.00
NEW CS000011ASC022	11mm Aluminum Crimp Caps with Pre-Slit PTFE-Orange Silicone Septa	10270.00

Crimp

11 mm

2 ml

To order **11mm Combipacks Of Clear Crimp Vials With Matching Caps**

Product Code	Description / 100 pk	Price Case Lot of 10 x 100 ₹
VC02C011ASC011	Combipack of 11mm Clear Crimp Vial & PTFE-Silicone Septa in a Aluminum Crimp Cap	20390.00
VC02C011ASC012	Combipack of 11mm Clear Crimp Vial & Pre-Slit PTFE-Silicone Septa in a Aluminum Crimp Cap	21950.00
NEW VC02C011ASC021	Combipack of 11mm Clear Glass Crimp Vials 12 x 32 and 11mm Aluminum Crimp Caps with PTFE-Orange Silicone Septa	17900.00
NEW VC02C011ASC022	Combipack of 11mm Clear Glass Crimp Vials 12 x 32 and 11mm Aluminum Crimp Caps with Pre-Slit PTFE-Orange Silicone Septa	19460.00
VC02C111ASC011	Combipack of 11mm Clear Crimp Vial With Write On patch & PTFE-Silicone Septa in a Aluminum Crimp Cap	21130.00
VC02C111ASC012	Combipack of 11mm Clear Crimp Vial With Write On patch & Pre-Slit PTFE-Silicone Septa in a Aluminum Crimp Cap	22690.00
NEW VC02C111ASC021	Combipack of 11mm Clear Glass Crimp Vials 12 x 32 with Write On Patch and 11mm Aluminum Crimp Caps with PTFE-Orange Silicone Septa	18640.00
NEW VC02C111ASC022	Combipack of 11mm Clear Glass Crimp Vials 12 X 32 with Write On Patch and 11mm Aluminum Crimp Caps with PTFE-Orange Silicone Septa	20200.00

Crimp



11 mm

2 ml

To order **Combipacks Of Amber Crimp Vials With Matching Caps**

Product Code	Description / 100 pk	Price Case Lot of 10 x 100 ₹
VC02A011ASC011	Combipack of 11mm Amber Crimp Vial & PTFE-Silicone Septa in a Aluminum Crimp Cap	21970.00
VC02A011ASC012	Combipack of 11mm Amber Crimp Vial & Pre-Slit PTFE-Silicone Septa in a Aluminum Crimp Cap	23530.00
NEW VC02A011ASC021	Combipack of 11mm Amber Glass Crimp Vials 12 x 32 and 11mm Aluminum Crimp Caps with PTFE-Orange Silicone Septa	19480.00
NEW VC02A011ASC022	Combipack of 11mm Amber Glass Crimp Vials 12 x 32 and 11mm Aluminum Crimp Caps with PTFE-Orange Silicone Septa SEPTA	21040.00
VC02A111ASC011	Combipack of 11mm Amber Crimp Vial With Write On Patch & PTFE-Silicone Septa in a Aluminum Crimp Cap	24420.00
VC02A111ASC012	Combipack of 11mm Amber Crimp Vial With Write On patch & Pre-Slit PTFE-Silicone Septa in a Aluminum Crimp Cap	25980.00
NEW VC02A111ASC021	Combipack of 11mm Amber Glass Crimp Vials 12 x32 with Write On Patch and 11mm Aluminum Crimp Caps with PRE-Slit PTFE-Orange Silicone Septa	21930.00
NEW VC02A111ASC022	Combipack of 11mm Amber Glass Crimp Vials 12 x 32 with Write On Patch and 11mm Aluminum Crimp Caps with PRE-Slit PTFE-Orange Silicone Septa	23490.00

13mm Screw or Rinse Vials

VIAL: 4ml 15 X 45mm Screw Vial, Clear or Amber Glass

These 15 x 45 mm Vials can hold up to 4ml of sample. They are used by the Waters 48-position autosampler, Agilent's (G2880A) autosampler tray used with the Agilent 6850, in 7673 and 7683 autosamplers. These Vials can also be used in the Perkin-Elmer Autosystem GC, Shimadzu AOC-14/1400, LC-10A, and SIL-2AS. They can be used as sample or wash Vials, or even as waste Vials.

With 13 x 425 caps and septa they are used as sample Vials. These Vials can also be used as storage Vials.

To order only 13mm Screw Vials

Product Code	Description - 100 /pk	Price
		Case Lot of 10 x 100 ₹
VO04C11300S000	13mm, 4ml Clear Glass Screw Vial With Write On Patch	18270.00
VO04A11300S000	13mm, 4ml Amber Glass Screw Vial With Write On Patch	18660.00



Screw Cap

To order only 13mm Screw Caps with Septa

Product Code	Description 100 / pk	Price
		Case Lot of 10 x 100 ₹
CS000013PKS011	13mm PTFE - Silicone Septa in a Blue Screw Cap	18790.00



13 mm

To order Combipacks Of 13mm Screw Vials With Matching Caps

Product Code	Description 100 / pk	Price
		Case Lot of 10 x 100 ₹
VC04C113PKS011	Combipack of 10mm Clear Screw Vial & PTFE-Silicone Septa in a Black Screw Cap	37060.00



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To order Combipacks Of 13mm Screw Amber Vials With Matching Caps

Product Code	Description 100 / pk	Price
		Case Lot of 10 x 100 ₹
VC04A113PKS011	Combipack of 10mm Clear Screw Vial & PTFE-Silicone Septa in a Black Screw Cap	37450.00



2 ml

PRICES EXCLUSIVE OF TAXES

EPA Vials

To order **EPA Pre-Assembled Vials**

Product Code	Description	Price / 72 pcs ₹
NEW VC20C124PWS111	20ml Clear Glass EPA Vial with PTFE Silicone Septa Bonded to a 24mm White Screw Cap	8530.00
NEW VC30C124PWS111	30ml Clear Glass EPA Vial with PTFE Silicone Septa Bonded to a 24mm White Screw Cap	9448.00
NEW VC40C124PWS111	40ml Clear Glass EPA Vial with PTFE Silicone Septa Bonded to a 24mm White Screw Cap	11383.00
VC60C124PWS111	60ml Clear Glass EPA Vial with PTFE Silicone Septa Bonded to a 24mm White Screw Cap	15549.00
NEW VC20A124PWS111	20ml Amber Glass EPA Vial with PTFE Silicone Septa Bonded to a 24mm White Screw Cap	9473.00
NEW VC30A124PWS111	30ml Amber Glass EPA Vial with PTFE Silicone Septa Bonded to a 24mm White Screw Cap	10593.00
NEW VC40A124PWS111	40ml Amber Glass EPA Vial with PTFE Silicone Septa Bonded to a 24mm White Screw Cap	12955.00
VC60A124PWS111	60ml Amber Glass EPA Vial with PTFE Silicone Septa Bonded to a 24mm White Screw Cap	18038.00

20mm Headspace GC Vials

To order only **20ml GC Vials**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
VO20F12000C000	Clear Glass, Flat Bottom, Headspace Crimp Vial 20mm	17415.00
VO20R12000C000	Clear Glass, Round Bottom, Headspace Crimp Vial 20mm	17555.00
NEW VO20F12000S000	Clear Glass Flat Bottom Headspace Screw Vial 20ml	19180.00
NEW VO20R12000S000	Clear Glass Round Bottom Headspace Screw Vial 20ml	21165.00



GC Headspace

To order only **20mm GC Vials Caps with Septa**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW CS000020ASC051	Headspace Aluminum Crimp Caps with PTFE-Silicone Septa	14810.00
CS000020ASC041	20mm GC Headspace Aluminum Crimp Cap with Ultra Clean, Ultra Low Bleed PTFE-Silicone Septa	16615.00
CS000020MSC041	20mm GC Headspace Magnetic Crimp Cap with Ultra Clean, Ultra Low Bleed PTFE-Silicone Septa	18425.00



20 mm

To order only **Headspace Magnetic Screw Cap Closure**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW CS000020MSS061	Headspace Magnetic Screw Caps with PTFE-Silicone Septa	32510.00

20 ml

GC Headspace

To order **Combipacks Of 20mm GC Flat Bottom Vials With Matching Caps**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VC20F120ASC051	Combi pack of 20ml Clear Glass Flat Bottom Headspace Crimp Vial and Headspace Aluminum Crimp Caps with PTFE-Silicone Septa	32225.00
VC20F120ASC041	Clear Glass, Flat Bottom, printed Headspace Vials with 20mm Aluminum Crimp Cap with Ultra Clean, Ultra Low-Bleed, PPTFE-Silicone Septa	34030.00
VC20F120MSC041	Clear glass, Flat Bottom, Printed Headspace Vials With 20mm Magnetic Crimp Cap With Ultra Clean, Ultra low-bleed, PTFE-Silicone Septa	35840.00

20 mm

To order **Combipacks Of 20mm GC Round Bottom Vials With Matching Caps**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VC20R120ASC051	Combipack of 20ml Clear Glass Round Bottom Headspace Crimp Vial and Headspace Aluminum Crimp Caps with PTFE-Silicone Septa	32365.00
VC20R120ASC041	Clear Glass, Round Bottom, Printed Headspace Vials With 20mm Aluminum Crimp Cap with Ultra Clean, Ultra Low-Bleed, PTFE-Silicone Septa	34170.00
VC20R120MSC041	Clear Glass, Round Bottom, Printed Headspace Vials With 20mm Magnetic Crimp Cap With Ultra Clean, Ultra low-bleed, PTFE-Silicone Septa	35980.00

20 ml

To order **Combipacks Of 20mm GC Flat Bottom Vials With Matching Caps**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VC20F120MSS061	Combipack of 20ml Clear Glass Flat Bottom Headspace Screw Vial and Headspace Magnetic Screw Caps with PTFE-Silicone Septa	51690.00

To order **Combipacks of 20ml Round Bottom Screw Vials With Matching Caps**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VC20R120MSS061	Combi pack of 20ml Clear Glass Round Bottom Headspace Screw Vial and Headspace Magnetic Screw Caps with PTFE-Silicone Septa	53675.00

Headspace Vials & Closures

To order only **10 ml Headspace Vials**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VO10F12000C000	10ml Clear Glass Flat Bottom Headspace Crimp Vial	7220.00
NEW VO10R12000C000	10ml Clear Glass Round Bottom Headspace Crimp Vial	8600.00
NEW VO10F12000S000	10ml Clear Glass Flat Bottom Headspace Screw Vial	12005.00
NEW VO10R12000S000	10ml Clear Glass Round Bottom Headspace Screw Vial	12915.00



To order only **10ml Flat Bottom Crimp Vials with Closures**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VC10F120ASC051	Combipack of 10ml Clear Glass Flat Bottom Headspace Crimp Vial and Headspace Aluminum Crimp Caps with PTFE-Silicone Septa	22030.00
NEW VC10F120ASC041	Combi pack of 10ml Clear Glass Flat Bottom Headspace Crimp Vial and Headspace Aluminum Crimp Caps with Ultra Low Bleed PTFE-Silicone Septa	23835.00
NEW VC10F120MSC041	Combi pack of 10ml Clear Glass Flat Bottom Headspace Crimp Vial and Headspace Magnetic Crimp Caps with Ultra Low Bleed PTFE-Silicone Septa	25645.00



To order only **10ml Round Bottom Crimp Vials with Closures**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VC10R120ASC051	Combipack of 10ml Clear Glass Round Bottom Headspace Crimp Vial and Headspace Aluminum Crimp Caps with PTFE-Silicone Septa	23410.00
NEW VC10R120ASC041	Combi pack of 10ml Clear Glass Round Bottom Headspace Crimp Vial and Headspace Aluminum Crimp Caps with Ultra Low Bleed PTFE-Silicone Septa	25215.00
NEW VC10R120MSC041	Combi pack of 10ml Clear Glass Round Bottom Headspace Crimp Vial and Headspace Magnetic Crimp Caps with Ultra Low Bleed PTFE-Silicone Septa	27025.00

To order only **10ml Flat Bottom Screw Vials with Closures**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VC10F120MSS061	Combi pack of 10ml Clear Glass Flat Bottom Headspace Screw Vial and Headspace Magnetic Screw Caps with PTFE-Silicone Septa	44515.00

To order only **10ml Round Bottom Screw Vials with Closures**

Product Code	Description - 100 /pk	Price / Case lot of 5 x 100 pcs ₹
NEW VC10R120MSS061	Combi pack of 10ml Clear Glass Round Bottom Headspace Screw Vial and Headspace Magnetic Screw Caps with PTFE-Silicone Septa	45425.00



*I choose **BOROSIL** Vials
for trouble free analysis*

Microscope Slides & Cover Glasses



Conforms to ISO 8037 standard

- Fine ground edges slide are manufactured by state-of-art manufacturing process which results in a high quality and polished ground edges.
- Refractive index of 1.53 ± 0.02
- From extremely uniform, thin and flat glass sheets which are very resistant to corrosion and fogging.
- The slide is used for routine microscopy application.



9100 - Microscope Slides

- Made from the finest white glass
- Uniform quality
- 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

9100P02 - Plain



9100D01 - Double Frosted



Product Code	Description	Pack Size 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	110.00
9100D01	Double Frosted, Ground Edges	76 X 26 X 1	50	25	130.00

L : Length x B : Breadth x WT : Wall Thickness

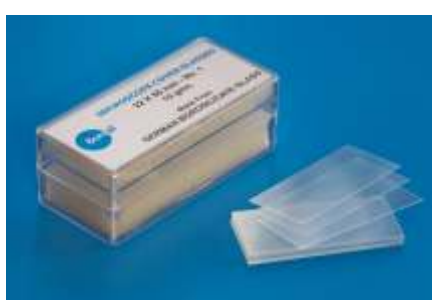


9115 - Cover glass

- Made from the finest white glass with excellent quality
- 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 finger 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

9115S01 - Square**9115S02 - Square****9115S03 - Square**

Product Code	Description	Pack Size mm	Quantity Per Packet / Piece	Packets / Case	Price / Packet ₹
9115S01	Square	18 x 18	100	50	90.00
9115S02	Square	22 x 22	100	50	90.00
9115S03	Square	24 x 24	100	50	95.00

9115R01 - Rectangular**9115R02 - Rectangular****9115R03 - Rectangular**

Product Code	Description	Pack Size mm	Quantity Per Packet / Piece	Packets / Case	Price / Packet ₹
9115R01	Rectangular	22 x 40	100	50	95.00
9115R02	Rectangular	22 x 50	100	50	100.00
9115R03	Rectangular	22 x 60	100	50	105.00

PRICES EXCLUSIVE OF TAXES

"**VETROCLEAN** is a Phosphate FREE alkaline detergent made up of high quality anionic & non-ionic surfactants with total solid content between 17% - 20%"

- This is special cleaner for glass, quartz and sensitive metals.
- Bio-degradable.
- pH 6-8, for 2% – 5% solution.
- Foam Tendency – Non foaming at 2%-5% concentrations.
- Best suited for Manual Cleaning, Soak & CIP, Machine Washers.
- No residue after proper cleaning.
- Non hazardous.
- Free from scents/toxic ingredients.



9001 - Vetroclean

Product Code	Capacity ml	Quantity Per Case	Price / Unit ₹
9001024	500	6	239.00
9001033	5000	1	1113.00
9001041	25000	1	4980.00

MSDS available on request

Borosil

introduces...

Lab 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





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 ₹
LATG8888P10	Beaker tong	10	6	300.00
LATG8888B10	Beaker tong	12	6	400.00
LATG8888F10	Flask tong	10	6	380.00



TONGS FOR CRUCIBLE

- Made of Stainless Steel
- Used to handle hot crucibles

Product	Description	Size	Case Lot	Price / Piece
LACT8888006	Crucible tong with bow stainless steel	6	6	150.00
LACT8888008	Crucible tong with bow stainless steel	8	6	190.00
LACT8888012	Crucible tong with bow stainless steel	12	6	350.00



CLAMPS

- Available in Zinc & Aluminium diecasted
- 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	Description	Case Lot No.	Price / Piece ₹
LAFC8888Z02	Two finger clamp, Zinc pressure die casted	10	300.00
LAFC8888AD3	Three finger clamp, Aluminum pressure die casted	10	350.00
LAFC8888ZD4	Four finger clamp, Zinc pressure die casted	10	300.00
LAFC8888AD4	Four finger clamp Aluminum pressure die casted	10	320.00





CLAMPS WITH BOSSHEAD

- Available in Zinc & Aluminium diecasted
- 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	550.00
LAFC8888A03	Three finger clamp (Aluminium PDC) with adjustable bosshead	12	550.00
LAFC8888Z04	Four finger clamp (Zinc PDC) with adjustable bosshead	12	600.00
LAFC8888A04	Four finger clamp (Aluminium PDC) with adjustable bosshead	12	625.00

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 ₹
LABC8888SCI	Single Burette clamp, PVC coated jaws stainless steel	12	400.00
LABC8888S01	Single Burette clamp, PVC uncoated jaws, stainless steel	12	350.00

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 pressure created by the springs yet allows easy operation without damaging glassware.

Product Code	Description	Case Lot No.	Price / Piece ₹
LABC8888B01	Single burette clamp, Aluminium PDC Fig. A	6	600.00
LABC8888A02	Double burette clamp, Aluminium PDC Fig. B	6	600.00
LABC8888AE1	Single burette clamp, Aluminium PDC (Eco.) Fig. C	6	300.00
LABC8888AE2	Double burette clamp, Aluminium PDC (Eco.) Fig. D	6	400.00

A



B



C



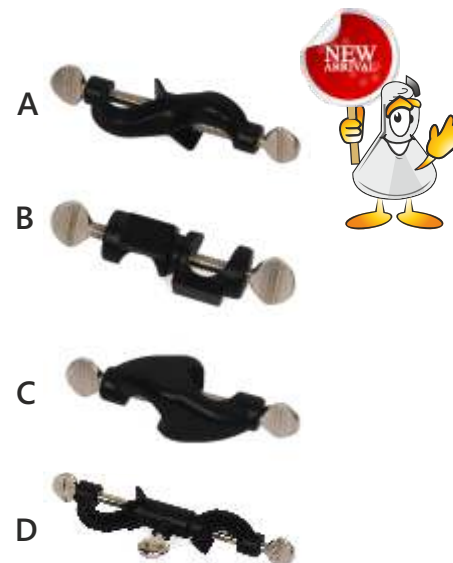
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BOSSHEADS

- 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	150.00
LABH8888OBL	Round bosshead Zinc PDC Fig. B	12	190.00
LABH8888JBL	Jumbo bosshead Aluminum PDC Fig C	12	400.00
LABH8888SBL	Swivel bosshead Zinc PDC Fig. D	12	270.00



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	250.00
LARR8888004	Retort Ring with bosshead	4	6	310.00



RETORT BASE

- Superior Heavy duty steel alloy stand with rubber lining 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	550.00
LARB8888H08	Retort base, Heavy	8" x 5"	6	650.00
LARB8888H10	Retort base, Heavy	10" x 6"	6	1100.00



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	380.00
LARS8888600	Retort base, Heavy	12 x 600	2	460.00
LARS8888750	Retort base, Heavy	12 x 750	2	530.00





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	400.00
LATS8888H25	'Z' Shape Test tube stand, 25 hole for 16mm tube	6	400.00

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

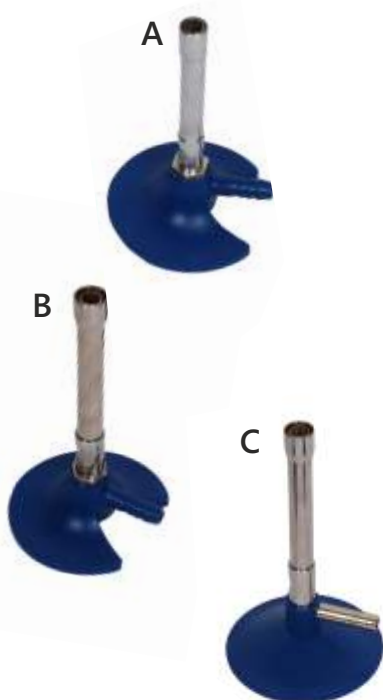
Product Code	Description	Case Lot No.	Price / Piece ₹
LATH8888000	Test tube holder, cross pattern, Stainless steel	24	170.00



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	Caselot No.	Price / Piece ₹
LABR8888Z11	Bunsen burner, Zinc PDC base with 11mm brass pipe for L.P. G. Fig. A	2	750.00
LABR8888Z13	Bunsen burner, Zinc PDC base with 13mm brass pipe for L.P. G. Fig. B	2	750.00
LABR8888013	Burner, sheet metal base with 13mm pipe, for L.P. G. Fig. C	2	600.00





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	60.00
LACS8888008	Chattaway Spatula	8	20	70.00
LASL8888C08	Micro Chattaway Spatula	8	20	65.00
LASC8888M06	Micro Scoop	6	10	50.00
LASC8888SM6	Semi Micro Spatula	6	10	75.00
LASL8888075	Big Spoon Spatula	7.5	10	115.00
LASL8888009	Big Spoon Spatula	9	10	130.00
LASP8888B06	Both side flat	6	20	65.00
LASP8888B08	Both side flat	8	20	85.00
LASP8888004	One end flat and one end Spoon	4	50	45.00
LASP8888006	One end flat and one end Spoon	6	50	50.00
LASP8888008	One end flat and one end Spoon	8	50	75.00
LASP8888010	One end flat and one end Spoon	10	50	120.00
LASP8888012	One end flat and one end Spoon	12	50	140.00
LASO8888W04	Ointment Spatula Wooden Handle	4	10	150.00
LASO8888W06	Ointment Spatula Wooden Handle	6	10	160.00
LATG8888S06	Ointment Spatula Forged Stainless Steel	6	10	325.00
LASL8888P06	Pointer Spatula	6	10	90.00
LASC8888165	165 mm Scoop	6.5	10	75.00
LASL8888510	Big Spoon Spatula	10	10	225.00

Chattaway / Micro Chattaway Spatula



Both Side Flat



One end flat and one end Spoon



Ointment Spatula

Stainless steel



Wooden



Pointer Spatula



165 mm Scoop





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.

Borosil glass is a low alkali borosilicate Type 3.3 glass. Its typical chemical composition is given below. It is virtually free of the Magnesia-Lime-Zinc group, and is also completely free of arsenic and other heavy material.

	Approx % by weight
SiO ₂	81
B ₂ O ₃	13
Na ₂ O / K ₂ O	4
Al ₂ O ₃	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	32.5 x10 ⁻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

Chemical Durability

Borosil is highly resistant to water, neutral and acid solutions, concentrated acids and their mixtures, as well as to chlorine, bromine, iodine and organic substances. Even during an extended period of reaction and at temperatures above 100°C, its chemical resistance exceeds that of most metals and other materials. It can withstand repeated dry and wet sterilisation without surface deterioration and subsequent contamination. The resistance to attack by various chemicals is shown below. Only hydrofluoric acid, very hot phosphoric acid and alkaline solutions damage the glass surface with rising concentration and temperature.

Contact chemical	Duration In Hr	Loss in Wt mg / m ²
Water distilled at 100°C	6	10
Water Vapour Steam at 121°C	1	75
Acid HCL	6	100
80% H ₂ SO ₄ at 130°C	12	140
Alkali-1N soln. of Na ₂ CO ₃ boiling	6	4000
Infusion Fluids Isotonic		
NaCl (0.85%) 121°C	2½	70
Glucose (5%) 121°C	2½	50

Fabricating with Borosil Glass

As it has low expansion and is workable, **Borosil** glass can be shaped, formed or joined into complex apparatus. Analysts can even do so in their own laboratory and keep modifying until the desired apparatus is developed. In cases where annealing in a controlled oven is difficult, the analyst can perform flame annealing.

Optical Properties: Laboratory glassware made from **Borosil** glass shows no noticeable absorption in the visible region of the spectrum. Consequently, it appears clear and colourless.

Safe Use of Glassware

Borosil laboratory apparatus is designed to perform efficiently and last long, provided it is used with proper care. The following notes are presented to assist users in deriving the maximum life and performance from their Borosil apparatus. Our representatives will be happy to offer you advice on any aspect concerning the safe use of our products.



Heating and Cooling

Glass may suffer damage in three ways.

- It may break under thermal stress in the 'Steady State', that is when a constant thermal gradient is established through the glass.
- It may break under the transient stress of a thermal shock, which may be sudden heating or cooling.
- If heated beyond a certain temperature, it may acquire a permanent stress which, on cooling, could subsequently cause failure.

The following precautions will assist in preventing failures during heating and cooling procedures.

- Do not leave the vessel unattended when evaporation work is being carried out. The vessel may crack or explode as the 'dryness' condition approaches and if the heat source is not adjusted correctly. Decrease the temperature gradually as the liquid level drops.
- Always stay cautious when removing glassware from a heat source. Avoid placing it on a cold or damp surface.
- Even though glassware can withstand extreme temperatures, please keep in mind that sudden temperature changes may cause the vessel to break.
- Always cool vessels slowly to prevent thermal breakage.
- Never apply heat to badly scratched or etched vessels as their thermal strength would have been greatly reduced.
- Never apply point source heating to a vessel; it increases the possibility of breakage.
- Always diffuse the heat source by using a metal gauze or air/water bath. Alternatively, move the vessel slowly in relation to the heat source to ensure even heating.
- Adjust the Bunsen Burner to get a large, soft flame. It will heat slowly, but uniformly. Uniform heat is a critical factor for some chemical reactions.
- Ensure that the flame is in contact with the vessel below the liquid level. Heating above this level may result in breakage of the vessels.
- Always use anti-bumping devices in the vessel, such as powdered pumice or glass wool, when the vessel and its contents are required to be heated rapidly.
- Never use any material with sharp edges, such as broken porcelain, as an anti-bumping device. This will cause internal abrasions and reduce the mechanical and thermal strength of the vessel.
- Thick-walled glassware should not be subjected to direct flame or any other localised heat source. An electric immersion heater is ideally used for heating vessels of this type.
- Avoid heating glassware over electric heaters with open elements. Uneven heat of this type can induce localised stress and increase the possibility of breakage.
- Always keep in mind that a hot plate will retain heat long after the appliance has been switched off.

- Always ensure that the surface of the hot plate is larger in area than the base of the vessel being heated. A plate that is under-sized for the job at hand will result in uneven heating and may even cause breakage of the glassware.
- Always ensure that manufacturer's instructions are followed when using electrical heat sources.

Mixing and Stirring

- 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 inside of the vessel.
- When using 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.
- Never mix sulphuric acid and water inside a glass measuring cylinder. The heat caused by the reaction can break the base of the cylinder.

Vacuum and Pressure

- Never use glassware beyond the recommended safe limit.
- Always use a safety screen when working with glassware subjected to pressure or vacuum.
- Never subject glassware to sudden pressure changes. Apply and release positive or negative pressures gradually.

Joining and Separating Glass Apparatus

- When storing glass stopcocks and joints, insert a thin strip of paper between the joint surfaces to prevent them from sticking.
- Do not store stopcocks with lubricants on the ground surfaces for long durations.
- Glass stopcocks on Burettes and Separating Funnels require frequent lubrication to prevent them from sticking.
- If a ground joint sticks, separation can usually be achieved 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. Using penetrating oil facilitates separation.
- 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.
- Three types of lubricants are commonly used on standard taper joints.
 - (a) Hydrocarbon grease is the most widely used. It can be removed easily by most laboratory solvents, including acetone.
 - (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.
 - (c) For long-term reflux or extraction reactions, a water-soluble, organic and insoluble grease such as glycerin, is suitable. Glycerin can be removed by means of water.



- When inserting glass tubing into a bung, it is recommended to use water, oil or glycerol on both, the tubing as well as the rubber bung. Always wear heavy protective gloves or similar protection when carrying out this operation.
- Always fire-polish the rough ends of the glass tubing before attempting to insert it into flexible tubing. The lubricants recommended above may also prove useful.
- Never attempt to pull a thermometer out of a rubber bung; always cut the bung away.

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 goggles should 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 bio-hazardous 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.

Cleaning:

Clean glassware is an essential of good laboratory technique, because even the most carefully executed process may produce an erroneous result if the glassware used is dirty. Glassware must always be physically clean as well as chemically clean, in many cases it must be sterile. All glassware must be absolutely grease-free. The safest indicator of cleanliness is uniform wetting of the surface with distilled water. This is particularly important in glassware used for measuring the volume of liquids. Grease and other contaminants prevent the glass from becoming wet uniformly. This, in turn, alters the volume of residue that adheres to the walls of the glass container, thus affecting the volume of liquid measured or delivered. Abrasive cleaners and abrasive sponges should not be used on laboratory glassware as these may damage the surface of the glass. Such damage to the surface can affect the properties of the glass, and limit further use of the product.

- Cleaning of glassware that has contained hazardous materials must be undertaken only by experienced personnel.
- Most new glassware is slightly alkaline in reaction. For precision chemical tests, new glassware should be soaked for several hours in acid water (1% solution hydrochloric acid or nitric acid) before washing.
- Glassware that has been contaminated with blood clots, culture media, etc., must be sterilised before cleaning.
- If the glassware becomes unduly clouded or dirty, or contains coagulated organic matter, it must be cleaned with chromic acid cleaning solution. The dichromates should be handled with extreme care as it is a powerful corrosive.
- Wash glassware as quickly as possible after use, but if delay is unavoidable, the articles should be kept to soak in water.
- Grease can be removed by means of weak sodium carbonate solution, acetone or fat solvents. Never use strong alkalis.
- Hot water, along with recommended detergents, should be used. If the glass is extremely dirty, a cleaning powder with a mild abrasive action may be applied, provided the surface is not scratched.
- During the washing, all parts of the article should be thoroughly scrubbed with a brush selected for the shape and size of the glassware. Brushes should always be in good condition to avoid any abrasion of the glassware.



- ♦ When chromic acid solution is used, the item may be rinsed with the cleaning solution or it may be filled and allowed to stand-the amount of time depending on amount of contamination on the glassware.
- ♦ Special types of precipitate material may require removal with nitric acid, aqua regia or fuming sulphuric acid. These are very corrosive substances and should be used only when required.
- ♦ It is imperative that all soap detergents and other cleaning fluids be removed from glassware before use. This is especially important with the detergents, slight traces of which will interfere with serologic and culture reactions. After cleaning, thoroughly rinse with tap water ensuring that containers are partly filled with water, shaken and emptied several times. Finally rinse with deionised or distilled water.
- ♦ Drying can be undertaken either in baskets or on pegs in air or at a temperature not exceeding 120°C.
- ♦ Always Protect clean glassware from dust by use of temporary closures or by placing in a dustfree cabinet. For Cleaning Specific types of glassware, please refer below.

glassware cleaning tips

Pipettes cleaning :

- ♦ Place 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 the Pipettes useless for taking accurate measurements. 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. At a convenient time, the Pipettes may then be drained and placed in a cylinder or jar of dissolved detergent or, if extremely dirty, in a jar of chromic acid cleaning solution. After soaking them for several hours, or overnight, drain the Pipettes and run tap water over and through them until all traces of dirt are removed. Soak the Pipettes in distilled water for at least one hour. Remove them from the distilled water, dry the external surface with a cloth, shake out the water and dry.
- ♦ In laboratories where a large number of Pipettes are used everyday, it is convenient to use an automatic Pipette washer. Polyethylene baskets and jars may be used for soaking and rinsing Pipettes in chromic acid cleaning solution. Electrically heated metallic Pipette driers are also available.
- ♦ After drying, place the Pipettes in a dust-free drawer. Wrap serological and bacteriological Pipettes in paper 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.

Burettes cleaning (with glass stopcock)

- ♦ Remove stopcock key and wash the burette with detergent and water.
- ♦ Rinse with tap water until all the dirt is removed. Then rinse with distilled water and dry.
- ♦ Wash the stopcock key separately. Before the stopcock key is replaced in the burette, lubricate the joint with a small amount of lubricant. Remember that burette stopcock keys are not interchangeable.
- ♦ Always cover burettes when not in use.
- ♦ Glass stopcocks are not interchangeable.
- ♦ The glass key and burette bore should be marked properly to avoid mixup.

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°C (15 lb pressure). Media which solidify on cooling should be poured out while the tubes are hot. After the tubes are emptied, brush with detergent and water, rinse thoroughly with tap water, rinse with distilled water, place in a basket and dry.
- ♦ If tubes are to be filled with a medium which is sterilized by autoclaving, do not plug until the medium is added. Both medium and tubes are thus sterilized with one autoclaving.
- ♦ If the tubes are to be filled with a sterile medium or if they are to be sterilized by the fractional method sterilize the tubes in the autoclaves or dry air sterilizer before adding the medium.

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 detergent and boil for 30 minutes. Rinse the tubes and clean with brush, rinse and dry with the usual precautions.
- ♦ 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 hemolysis. Detergents interfere with serologic reactions.
- ♦ Serological tubes and glassware should be kept separate from all other glassware and used for nothing except serologic procedures.

Dishes And Culture Bottles

- ♦ Sterilize and clean as detailed under Culture Tubes.
- ♦ Wrap in heavy paper or place in a petri dish can.
- ♦ Sterilize in the autoclave or dry air sterilizer.



autoclaving laboratory glassware

Application Note

- ♦ 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.

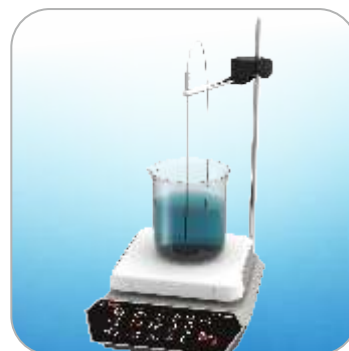
Autoclaving Borosil Glassware

- ♦ Borosil recommends the following safety practices when autoclaving laboratory glassware:
- ♦ Never autoclave items containing corrosives (e.g. acids, bases, phenol), solvents or volatiles (e.g. ethanol, methanol, chloroform) or radioactive materials.
- ♦ Place individual glassware vessels within a heat-resistant plastic or metal tray on a shelf or rack. Never place them directly on the Autoclave base or floor. 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.
- ♦ Add water rising up to 1/4 to 1/2 inch in the tray, so that the glassware will heat more evenly.
- ♦ Check any plastic caps, tubing or other items to ensure they can be safely autoclaved with the glassware.
- ♦ Fill the glassware only half full with the liquids to be sterilised. Take into account, the volume of liquid to be autoclaved. A 2-litre flask containing 1 litre of liquid takes much longer to sterilise than four 500 ml flasks, each containing 250 ml of liquid.
- ♦ Do a test run when autoclaving larger volumes of liquid, to make sure that the liquid has reached 121°C.
- ♦ 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.
- ♦ 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 reduced.
- ♦ To prevent bottles from getting shattered during pressurisation, the caps of the vessels with liquids must be loosened completely before loading. Always use the slow exhaust or liquid cool cycle when autoclaving liquids, to prevent the liquid from boiling over, causing loss of the contents.
- ♦ Never autoclave a sealed vessel containing liquids as this may result in an explosion of the super-heated liquid and steam during the cycle, or when the vessel is opened.
- ♦ Wear heat-resistant gloves when opening the Autoclave door after a cycle. When removing items from an Autoclave, at least a rubber apron, rubber sleeve protectors and heat-resistant gloves should be worn.
- ♦ Wait for 5 minutes before removing dry glassware from the Autoclave, and wait for 10 to 20 minutes before removing glassware containing liquids. The larger the volume of liquid, the longer you should wait. Liquids removed too soon may boil and overflow from the vessel, causing burns to the operator.
- ♦ Do not tighten caps on the vessels immediately after autoclaving as the cap or the vessel may get shattered due to the vacuum resulting from the cooling of the steam in the vessel. This is particularly important for larger vessels. Caps with liners may have their liner sucked into the vessel if the cap on the vessel opening is not loose enough.
- ♦ 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.
- ♦ For non-liquid loads, please allow the glassware to cool for 15 minutes before touching it with ungloved hands.
- ♦ For liquid loads, please allow the liquid to stand for a full hour before touching the glassware with ungloved hands. Ensure that others in the vicinity are aware of the presence of a heat hazard.

Liquid
Handling
Systems



LabQuest by Borosil
Laboratory
Equipment



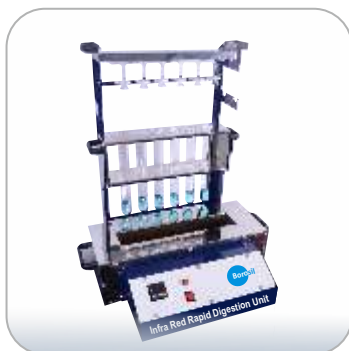
Speciality Laboratory Products & Equipment

part

2



Disposable
Plastics



Distillation &
Digestion



2 part | Speciality Laboratory Products & Equipment

The **future** of Bottle dispensing is **here!**

BOROSIL®
ultimus

Now

Refill

Rinse

Dilute

without dismounting!



2012 - Bottle Top Dispensers Pinnacle Model - with Re-circulation Valve, Calibration And Accuracy As Per ISO 8655

Product	Vol. Range (ml)	Increment (ml)	Accuracy		CV		Price / Piece ₹
			± %	± ml	± %	± ml	
LH002012002	0.25 - 2.5	0.05	0.6	0.015	0.2	0.005	19990.00
LH002012005	0.5 - 5.0	0.10	0.5	0.025	0.1	0.005	19990.00
LH002012016	1.0 - 10.0	0.20	0.5	0.050	0.1	0.010	19990.00
LH002012020	2.5 - 30.0	0.50	0.5	0.150	0.1	0.030	28100.00
LH002012040	5.0 - 60.0	1.00	0.5	0.300	0.1	0.060	29710.00
LH002012100	10.0 - 100.0	2.00	0.5	0.500	0.1	0.100	43225.00



2011 - Dispensers Bottle Top Research Model - Fully Autoclavable, Calibration And Accuracy As Per ISO 8655

Product	Vol. Range (ml)	Increment (ml)	Accuracy		CV		Price / Piece ₹
			± %	± ml	± %	± ml	
LH002011002	0.25 - 2.5	0.05	0.6	0.012	0.2	0.004	11295.00
LH002011005	0.5 - 5.0	0.10	0.6	0.030	0.2	0.010	11295.00
LH002011016	1.0 - 10.0	0.20	0.6	0.060	0.2	0.020	11295.00
LH002011020	2.5 - 30.0	0.50	0.6	0.180	0.2	0.060	16555.00
LH002011040	5.0 - 60.0	1.00	0.6	0.360	0.2	0.120	16555.00
LH002011100	10.0 - 100.0	2.00	0.5	0.500	0.1	0.100	19850.00

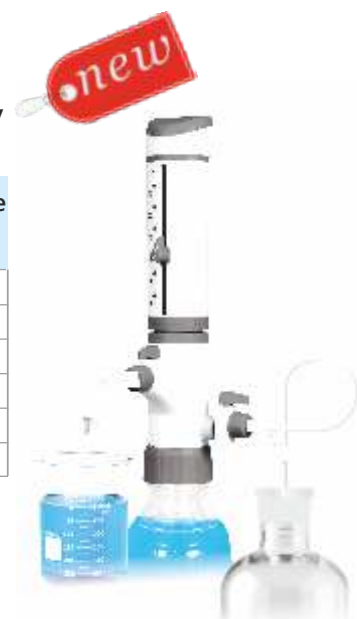
Dispensers come with 20mm, 32mm, 36mm, 40mm & 45mm bottle neck adapters.

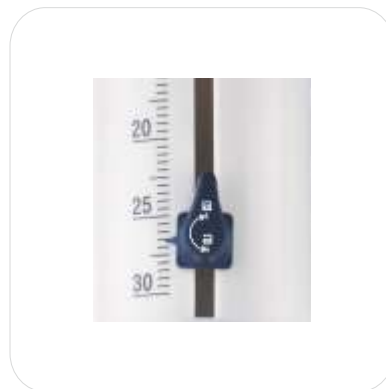


2013 - Borosil Ultimus Dispensers Bottle Top - With Dual Valve Technology Accuracy As Per ISO 8655

Product	Description	Capacity (ml)	Price / Piece ₹
LH002013002	Dual Valve Bottle Top Dispenser	0.25 - 2.5	28800.00
LH002013005	Dual Valve Bottle Top Dispenser	0.5 - 5.0	28800.00
LH002013016	Dual Valve Bottle Top Dispenser	1.0 - 10.0	28800.00
LH002013020	Dual Valve Bottle Top Dispenser	2.5 - 30.0	38400.00
LH002013040	Dual Valve Bottle Top Dispenser	5.0 - 60.0	38400.00
LH002013100	Dual Valve Bottle Top Dispenser	10.0 - 100.0	52800.00

Dispensers come with 28mm, 30mm, 32mm, 36mm, 40mm & 45mm bottle neck adapters.





2011 - Bottle Top Dispenser Spares

Product Code	Description	Price / Piece ₹
LH002011S01	Set of 5 Adapters 28 / 32 / 36 / 40 / 45 mm - BTDR - ADPT	1900.00
LH002011S02	Telescopic Tube Common For All Sizes- BTDR - IT	735.00
LH002011S03	Volume Adjustment Knob For 2.5 / 5 / 10 ml Dispenser - BTDR - VAK - I	435.00
LH002011S04	Volume Adjustment Knob For 30 / 60 / 100 ml Dispenser - BTDR - VAK - II	565.00
LH002011S05	Delivery Nozzle With PTFE Screw Adapter And FEP Tubing For 2.5 / 5 / 10 ml Dispenser BTDR - DN - I	1610.00
LH002011S06	Delivery Nozzle With PTFE Screw Adapter And FEP Tubing For 30 / 60 / 100 ml Dispenser - BTDR - DN - II	1900.00
LH002011S07	Delivery Tube Cover With Nozzel Cap Common For All Sizes - BTDR - DTC	635.00

2012 - Bottle Top Dispenser Spares

Product Code	Description	Price / Piece ₹
LH002012S01	Set of 5 Adapters 28 / 32 / 36 / 40 / 45 mm - BTDR - ADPT	1900.00
LH002012S02	Telescopic Tube Common For All Sizes- BTDR - IT	735.00
LH002012S03	Volume Adjustment Knob For 2.5 / 5 / 10 ml Dispenser - BTDR - VAK - I	435.00
LH002012S04	Volume Adjustment Knob For 30 / 60 / 100 ml Dispenser - BTDR - VAK - II	565.00
LH002012S05	Delivery Nozzle With PTFE Screw Adapter And FEP Tubing For 2.5 / 5 / 10 ml Dispenser BTDR - DN - I	1610.00
LH002012S06	Delivery Nozzle With PTFE Screw Adapter And FEP Tubing For 30 / 60 / 100 ml Dispenser - BTDR - DN - II	1900.00
LH002012S07	Delivery Tube Cover With Nozzel Cap Common For All Sizes - BTDR - DTC	635.00

7001 - Fixed Volume Micropipettes Single Channel - Semi Autoclavable, Calibration And Accuracy As Per ISO 8655

Product Code	Volume (µl)	Accuracy (± %)	CV (≤%)	Price / Piece ₹
LH007001045	0.5	2.5	1.8	2048.00
LH007001001	1.0	2.5	1.8	2048.00
LH007001002	2.0	2.5	1.2	2048.00
LH007001005	5.0	1.5	0.8	2048.00
LH007001006	10.0	1.0	0.5	2048.00
LH007001008	20.0	0.5	0.3	2048.00
LH007001009	25.0	0.5	0.3	2048.00
LH007001012	50.0	0.3	0.3	2048.00
LH007001016	100.0	0.3	0.2	2048.00
LH007001020	200.0	0.3	0.2	2048.00
LH007001021	250.0	0.3	0.2	2048.00
LH007001024	500.0	0.3	0.2	2048.00
LH007001029	1000.0	0.3	0.2	2048.00
LH007001030	2000.0	0.3	0.2	2048.00
LH007001033	5000.0	0.3	0.2	2048.00
LH007001038	10000.0	0.3	0.2	2048.00



7002 - Variable Volume Micropipettes Single Channel - Semi Autoclavable, Calibration And Accuracy As Per ISO 8655

Product Code	Volume (µl)	Increment (µl)	Volume (µl)	Accuracy (± %)	CV (≤%)	Price / Piece ₹
LH007002002	0.2 - 2.0	0.01	0.2	12.0	6.00	4322.00
		1.0	2.5	1.50		
		2.0	1.5	0.70		
LH007002005	0.5 - 10.0	0.10	0.5	5.0	2.80	4322.00
		5.0	1.5	0.80		
		10.0	1.0	0.40		
LH007002008	2.0 - 20.0	0.10	2.0	5.0	1.50	4322.00
		10.0	1.0	0.60		
		20.0	1.0	0.30		
LH007002016	5.0 - 50.0	1.00	5.0	2.5	1.50	4322.00
		25.0	0.7	0.30		
		50.0	0.7	0.30		
LH007002020	10.0 - 100.0	1.00	10.0	2.5	0.70	4322.00
		50.0	0.8	0.30		
		100.0	0.8	0.15		
LH007002024	20.0 - 200.0	1.00	20.0	2.5	0.70	4322.00
		100.0	1.0	0.30		
		200.0	0.6	0.20		
LH007002029	100.0 - 1000.0	10.00	100.0	1.6	0.30	4322.00
		500.0	0.6	0.20		
		1000.0	0.5	0.20		
LH007002033	500.0 - 5000.0	100.00	500.0	1.5	0.30	4322.00
		2500.0	0.6	0.20		
		5000.0	0.6	0.20		
LH007002038	1000.0 - 10000.0	100.00	1000.0	1.5	0.30	4322.00
		5000.0	0.6	0.20		
		10000.0	0.6	0.20		



Liquid Handling Systems
MICROPIPETTES

NOW IN
Excel Series



7111 - Fixed Volume Single Channel Fully Autoclavable - Micropipettes *Excel*,
Calibration And Accuracy As Per ISO 8655

Product Code	Volume (µl)	Accuracy (± %)	CV (≤%)	Price / Piece ₹
LH007111001	1.0	2.5	1.8	4130.00
LH007111002	2.0	2.5	1.2	4130.00
LH007111005	5.0	1.5	0.8	4130.00
LH007111006	10.0	1.0	0.5	4130.00
LH007111008	20.0	0.5	0.3	4130.00
LH007111009	25.0	0.5	0.3	4130.00
LH007111012	50.0	0.3	0.3	4130.00
LH007111016	100.0	0.3	0.2	4130.00
LH007111020	200.0	0.3	0.2	4130.00
LH007111021	250.0	0.3	0.2	4130.00
LH007111024	500.0	0.3	0.2	4130.00
LH007111029	1000.0	0.3	0.2	4130.00
LH007111030	2000.0	0.3	0.2	4130.00
LH007111033	5000.0	0.3	0.2	4130.00
LH007111038	10000.0	0.3	0.2	4130.00



7112 - Variable Volume Single Channel - Fully Autoclavable - Micropipettes *Excel*, Calibration And Accuracy As Per ISO 8655

Product Code	Volume Range (µl)	Increment (µl)	Volume (µl)	Accuracy (± %)	CV (≤%)	Price / Piece ₹
LH007112002	0.2 - 2.0	0.002	0.2	12.0	6.0	6550.00
			1.0	2.5	1.5	
			2.0	1.5	0.7	
LH007112005	0.5 - 10.0	0.02	0.5	5.0	2.8	6550.00
			5.0	1.5	0.8	
			10.0	1.0	0.4	
LH007112008	2.0 - 20.0	0.02	2.0	5.0	1.5	6550.00
			10.0	1.0	0.6	
			20.0	1.0	0.3	
LH007112016	5.0 - 50.0	0.1	5.0	2.5	1.5	6550.00
			25.0	0.7	0.3	
			50.0	0.7	0.3	
LH007112020	10.0 - 100.0	0.2	10.0	2.5	0.7	6550.00
			50.0	0.8	0.3	
			100.0	0.8	0.15	
LH007112024	20.0 - 200.0	0.2	20.0	2.5	0.7	6550.00
			100.0	1.0	0.3	
			200.0	0.6	0.2	
LH007112029	100.0 - 1000.0	1.0	100.0	1.6	0.3	6550.00
			500.0	0.6	0.2	
			1000.0	0.5	0.2	
LH007112033	500.0 - 5000.0	10.0	500.0	1.5	0.3	6550.00
			2500.0	0.6	0.2	
			5000.0	0.6	0.2	
LH007112038	1000.0 - 10000.0	20.0	1000.0	1.5	0.3	6550.00
			5000.0	0.6	0.2	
			10000.0	0.6	0.2	





7113 - Variable Volume Multichannel (8 Channel) Fully Autoclavable - Micropipettes *Excel*, Calibration And Accuracy As Per ISO 8655

Product Code	Volume Range (µl)	Increment (µl)	Volume (µl)	Accuracy (± %)	CV (≤%)	Price / Piece ₹
LH007113001	0.5 - 10	0.1	1	4.00	4.00	25000.00
			5	2.50	2.50	
			10	1.50	1.50	
LH007113002	2 - 20	0.1	2	4.00	4.00	25000.00
			10	1.50	1.50	
			20	1.50	1.00	
LH007113009	5 - 50	1.0	5	3.00	2.00	25000.00
			25	1.50	1.00	
			50	0.50	0.50	
LH007113016	10 - 100	1.0	10	3.00	1.50	25000.00
			50	1.00	0.50	
			100	1.00	0.50	
LH007113020	20 - 200	1.0	20	2.00	0.80	25000.00
			100	1.00	0.50	
			200	0.70	0.25	
LH007113022	40 - 300	1.0	40	2.00	0.80	25000.00
			150	1.00	0.50	
			300	0.70	0.25	



7114 - Variable Volume Multichannel (12 Channel) Fully Autoclavable - Micropipettes *Excel*, Calibration And Accuracy As Per ISO 8655

Product Code	Volume Range (µl)	Increment (µl)	Volume (µl)	Accuracy (± %)	CV (≤%)	Price / Piece ₹
LH007114001	0.5 - 10	0.1	1	4.00	4.00	33125.00
			5	2.50	2.50	
			10	1.50	1.50	
LH007114002	2 - 20	0.1	2	4.00	4.00	33125.00
			10	1.50	1.50	
			20	1.50	1.00	
LH007114009	5 - 50	1.0	5	2.00	2.00	33125.00
			25	1.50	1.00	
			50	0.50	0.50	
LH007114016	10 - 100	1.0	10	1.50	1.50	33125.00
			50	0.50	0.50	
			100	0.50	0.50	
LH007114020	20 - 200	1.0	20	0.80	0.80	33125.00
			100	0.50	0.50	
			200	0.25	0.25	
LH007114022	40 - 300	1.0	40	0.80	0.80	33125.00
			150	0.50	0.50	
			300	0.25	0.25	

7000 - Fixed Volume Miniature Micropipettes Single Channel - Low Cost Fully Autoclavable, Calibration And Accuracy As Per ISO 8655

Product Code	Volume (µl)	Accuracy (± %)	CV (≤%)	Price / Piece ₹
LH007000005	5.0	1.5	1.0	409.00
LH007000006	10.0	1.0	1.0	409.00
LH007000008	20.0	0.5	0.5	409.00
LH007000009	25.0	0.5	0.5	409.00
LH007000012	50.0	0.4	0.3	409.00
LH007000016	100.0	0.3	0.3	409.00
LH007000020	200.0	0.5	0.5	409.00
LH007000021	250.0	0.5	0.5	460.00
LH007000024	500.0	0.5	0.5	460.00
LH007000029	1000.0	0.5	0.5	460.00



7009 - Stands For Micropipettes

Product Code	Description	Price / Piece ₹
LH007009000	Micropipette Stand for one pipette (modular)	460.00
LH007009003	Micropipette Stand for 3 single channel pipettes	654.00
LH007009006	Micropipette Stand for 6 single channel pipettes	1253.00
LH007009008	Micropipette Stand for 8 channel pipettes	1114.00
LH007009012	Micropipette Stand for 12 channel pipettes	1405.00



7009000



7009003



7009006



7009008



7009012



7022 - Variable Volume Electronic Micropipettes Single Channel, Calibration And Accuracy As Per ISO 8655

Product Code	Volume Range (μl)	Increment (μl)	Volume (μl)	Accuracy (± %)	CV (≤%)	Price / Piece ₹
LH007022042	0.2-10.0	0.05	0.2 5.0 10.0	12.0 1.0 0.9	10.00 0.70 0.40	18173.00
LH007022012	5.0-120.0	0.50	5.0 50.0 120.0	3.5 0.7 0.4	1.50 0.30 0.15	18173.00
LH007022008	20.0-300.0	1.00	20.0 150.0 300.0	2.5 0.6 0.4	0.70 0.20 0.15	18173.00
LH007022024	50.0-1000	05.00	50.0 500.0 1000.0	2.0 0.6 0.4	1.00 0.20 0.15	18173.00
LH007022016	100.0-5000	010.00	100.0 2500.0 5000.0	1.6 0.8 0.5	0.40 0.20 0.15	18173.00

7031 - Tips For Micropipette



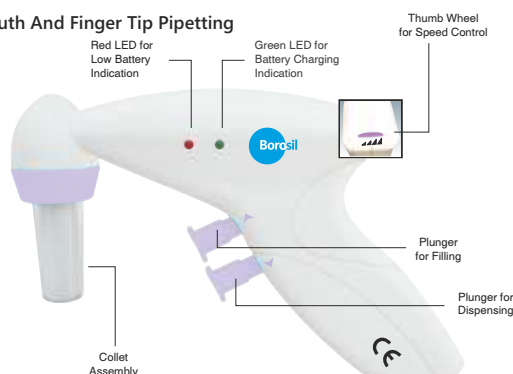
Product Code	Volume Range (ml)	Qty / packet	Price / Packet ₹
LH007031033	1 - 5	100	643.00
LH007031038	1 - 10	100	914.00

7005 - Electronic Pipette Filling Device

Product Code	Description	Price / Piece ₹
LH007005011	Grey body / Grey collet and plunger 220 V	8411.00
LH007005012	Grey body / Violet collet and plunger 220 V	8411.00
LH007005013	Grey body / Red collet and plunger 220 V	8411.00



**Safe,
Efficient and
Easy Alternative
for Mouth And Finger Tip Pipetting**



*Note : Only Collet assembly is autoclavable

Micro Centrifuge Tubes

Certified RNase, DNase, DNA & Pyrogen Free | Centrifuge upto 20000 RCF
Temperature range: -80°C to 121°C | FDA approved resins | Universal rotor compatibility.



- Borosil 1.5 ml Micro Centrifuge Tube
- Easy Seal Mechanism for single hand operation
- Smooth finish, will not snare gloves
- Exceptionally clear & transparent
- Designed for easy needle pierce

Product Code	Description	Pack Size	Price / Pack ₹
BGPMCT015C	1.5 ml Micro Centrifuge Tubes With Cap	500 x 2(1000)	850.00



Premium Pipette Tips



Borosil Glass Works Ltd. has always been the pioneer in developing speciality products which would significantly benefit the scientific community.

BOROSIL now introduces premium quality Pipette Tips manufactured with supreme precision.

All **BOROSIL** tips are.....

- Certified DNase, RNase and Pyrogen Free
- Free of PCR inhibitors, lubricants and heavy metals
- Produced from special diamond polish mould using medical grade virgin polypropylene which provides very high transparency
- With graduations for visual control of liquid transfer
- 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

BOROSIL's pipette tips range includes

- Sterile
- Non sterile
- Low retention
- Filter

in capacities of 10µl, 10µl Long, 20µl, 50µl, 100µl, 200µl and 1000µl and are available in **Bulk, Rack and Reload system**

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.



Filter Tips



ISO 9001:2008

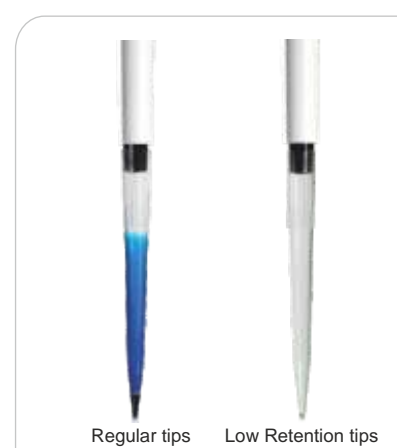


ISO 13485:2003

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.



Regular tips

Low Retention tips

BULK

- Easy tearing
- Self Standing PET bag
- Double sealed bag to prevent contamination

10 µl Universal Graduated Tips

1000 Tips / Pack (10 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) / 10 Packs
BGT-10B	-	-	-	476.00	4760.00
BGT-10LB	-	●	-	729.00	7290.00
BGT-10FB	-	-	●	2217.00	22170.00
BGT-10LFB	-	●	●	2639.00	26390.00

**10 µl Long Universal Graduated Tips**

1000 Tips / Pack (10 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) / 10 Packs
BGT-10XLB	-	-	-	476.00	4760.00
BGT-10XLLB	-	●	-	729.00	7290.00
BGT-10XLFB	-	-	●	2217.00	22170.00
BGT-10XLLFB	-	●	●	2639.00	26390.00

**20 µl Universal Graduated Tips (With Filter only)**

1000 Tips / Pack (5 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) / 5 Packs
BGT-20FB	-	-	●	2217.00	11085.00
BGT-20LFB	-	●	●	2639.00	13195.00

**50 µl Universal Graduated Tips (With Filter only)**

1000 Tips / Pack (5 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) / 5 Packs
BGT-50FB	-	-	●	2217.00	11085.00
BGT-50LFB	-	●	●	2639.00	13195.00



BULK**100 µl Universal Graduated Tips
(With Filter only)**

1000 Tips / Pack (5 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) / 5 Packs
BGT-100FB	-	-	●	2217.00	11085.00
BGT-100LFB	-	●	●	2639.00	13195.00

**200 µl Universal Graduated Tips**

1000 Tips / Pack (10 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) / 10 Packs
BGT-200B	-	-	-	436.00	4360.00
BGT-200BC*	-	-	-	436.00	4360.00
BGT-200LB	-	●	-	950.00	9500.00
BGT-200FB	-	-	●	2217.00	22170.00
BGT-200LFB	-	●	●	2639.00	26390.00

* C indicates **YELLOW** Colour**1000 µl Universal Graduated Tips**

1000 Tips / Pack (10 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) 10 Packs
BGT-1000B	-	-	-	655.00	6550.00
BGT-1000BC*	-	-	-	655.00	6550.00
BGT-1000LB	-	●	-	1161.00	11610.00
BGT-1000FB	-	-	●	2744.00	27440.00
BGT-1000LFB	-	●	●	3325.00	33250.00

* C indicates **BLUE** Colour

RACK

- Fully autoclavable and stackable
- Hinge rack allows single hand operation

10 µl Universal Graduated Tips

96 Tips x 10 Racks / Pack

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack
BGT-10R	-	-	-	2005.00
BGT-10SR	●	-	-	2164.00
BGT-10LR	-	●	-	2164.00
BGT-10FR	-	-	●	3166.00
BGT-10SLR	●	●	-	2322.00
BGT-10SFR	●	-	●	3272.00
BGT-10LFR	-	●	●	3325.00
BGT-10SLFR	●	●	●	4010.00

10 µl Long Universal Graduated Tips

96 Tips x 10 Racks / Pack

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack
BGT-10XLR	-	-	-	2005.00
BGT-10XLSR	●	-	-	2164.00
BGT-10XLLR	-	●	-	2164.00
BGT-10XLFR	-	-	●	3166.00
BGT-10XLSLR	●	●	-	2322.00
BGT-10XSFR	●	-	●	3272.00
BGT-10XLLFR	-	●	●	3325.00
BGT-10XLSLFR	●	●	●	4010.00

**20 µl Universal Graduated Tips
(With Filter only)**

96 Tips x 10 Racks / Pack

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack
BGT-20FR	-	-	●	3166.00
BGT-20SFR	●	-	●	3272.00
BGT-20LFR	-	●	●	3325.00
BGT-20SLFR	●	●	●	4010.00

**50 µl Universal Graduated Tips
(With Filter only)**

96 Tips x 10 Racks / Pack

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack
BGT-50FR	-	-	●	3166.00
BGT-50SFR	●	-	●	3272.00
BGT-50LFR	-	●	●	3325.00
BGT-50SLFR	●	●	●	4010.00



RACK

100 µl Universal Graduated Tips
(With Filter only)

96 Tips x 10 Racks / Pack

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack
BGT-100FR	-	-	●	3166.00
BGT-100SFR	●	-	●	3272.00
BGT-100LFR	-	●	●	3325.00
BGT-100SLFR	●	●	●	4010.00



200 µl Universal Graduated Tips

96 Tips x 10 Racks / Pack

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack
BGT-200R	-	-	-	1900.00
BGT-200SR	●	-	-	2059.00
BGT-200RC*	-	-	-	1900.00
BGT-200SRC*	●	-	-	2059.00
BGT-200LR	-	●	-	2111.00
BGT-200FR	-	-	●	3166.00
BGT-200SLR	●	●	-	2270.00
BGT-200SFR	●	-	●	3272.00
BGT-200LFR	-	●	●	3325.00
BGT-200SLFR	●	●	●	4010.00

* C indicates **YELLOW** Colour

1000 µl Universal Graduated Tips

96 Tips x 6 Racks / Pack

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack
BGT-1000R	-	-	-	1215.00
BGT-1000SR	●	-	-	1426.00
BGT-1000RC*	-	-	-	1215.00
BGT-1000SRC*	●	-	-	1426.00
BGT-1000LR	-	●	-	1689.00
BGT-1000FR	-	-	●	2217.00
BGT-1000SLR	●	●	-	1848.00
BGT-1000SFR	●	-	●	2428.00
BGT-1000LFR	-	●	●	2639.00
BGT-1000SLFR	●	●	●	3008.00

* C indicates **BLUE** Colour

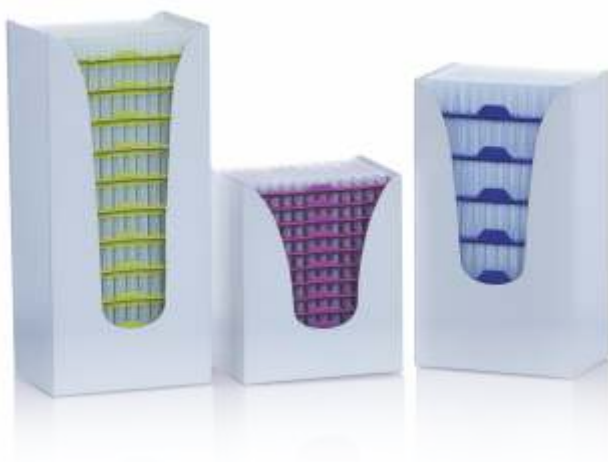
RELOADING STACK

- Easy to operate
- Require less storage space
- Minimizes wastage and reduces carbon footprint

10 µl Universal Graduated Tips

96 Tips x 10 Plates / Pack (10 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) 10 Packs
BGT-10Z	-	-	-	1372.00	13720.00
BGT-10SZ	●	-	-	1478.00	14780.00
BGT-10LZ	-	●	-	1531.00	15310.00
BGT-10SLZ	●	●	-	1742.00	17420.00



200 µl Universal Graduated Tips

96 Tips x 10 Plates / Pack (10 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) 10 Packs
BGT-200Z	-	-	-	1320.00	13200.00
BGT-200SZ	●	-	-	1424.00	14240.00
BGT-200LZ	-	●	-	1531.00	15310.00
BGT-200SLZ	●	●	-	1689.00	16890.00

1000 µl Universal Graduated Tips

96 Tips x 10 Plates / Pack (10 Packs / Case)

Catalogue No.	Sterile	Low Retention	Filter	Price (₹) Per Pack	Price (₹) 10 Packs
BGT-1000Z	-	-	-	898.00	8980.00
BGT-1000SZ	●	-	-	1056.00	10560.00
BGT-1000LZ	-	●	-	1109.00	11090.00
BGT-1000SLZ	●	●	-	1320.00	13200.00

EMPTY TIP BOXES



Empty Tip Boxes

Pack (5 Packs / Case)

Catalogue No.	Rack / Pack	Price (₹) Per Pack	Price (₹) 5 Packs
BGT-10ETR	10	1558.00	7790.00
BGT-200ETR	10	1558.00	7790.00
BGT-1000ETR	6	1031.00	5155.00

Infrared Rapid Digestion Unit

with thermal shock resistant quartz digestion tubes

Kjeldahl



The Kjeldahl method is the official method for determining nitrogen and protein contents in :

- Foods (Raw materials and finished products)
- Animal feeds
- Soils, Fertilizers, etc.
- Waste water, sludge, etc.
- Lubricants, fuel oils, etc

Traditionally soils, sediments, sludge's, foods and other materials have been digested using Sulphuric acid in large round-bottomed flasks for Kjeldahl analysis. These were heated on heating mantles and notoriously took up a lot of room in the fume cupboard. In order to maximize the number of digestions in a given space, systems were designed to use tall straight **Quartz digestion tubes** in racks on a rectangular heating Chamber .

Kjeldahl Method:

Johan Kjeldahl a Danish Chemist in 1883 while studying the changes of protein content during the transformation of barley into malt process developed the method for determining Nitrogen which then took its name from him. Because of its high degree of precision, reproducibility and versatility, the Kjeldahl method is used today to determine content of Nitrogen and Proteins according to official methods.(AOAC, EPA, DIN, ISO) .

Seldom in human history has an invention remained basically unchanged for such a long time as Kjeldahl's method for Nitrogen determination.

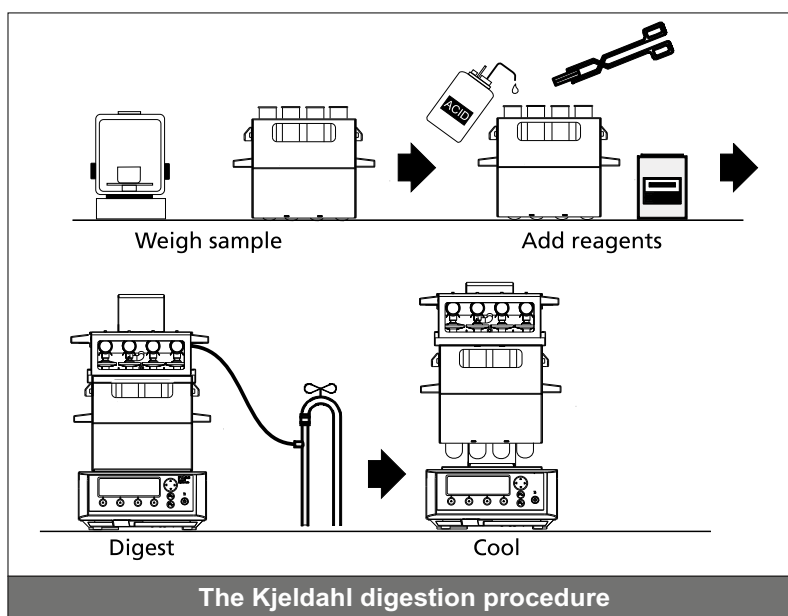
More than 90% of Protein containing samples and over 60% of all Nitrogen containing samples can be analyzed by using this basic procedure.

The food industry processes raw material in numerous ways and into many different products, from cheese and bakery products or ice cream production through to uses in meat processing or in the production of ready meals. Hence the overall protein content plays an important role both for the payment of raw material delivered and for determining the value of the product.

- The Digestion Units are compact and well insulated to minimize heat transfer to the surroundings and allow fast, even heating thus giving good working conditions as well as saving energy.
- The Digestion block consists of Quartz Infrared heaters on either sides .
- Energy efficient **Quartz Heater** and ceramic insulation to retain heat inside the tube.
- Insert rack with handle for easy loading and removal of digestion tubes.
- Exhaust system with glass Manifold and water jet pump (glass filter pump).
- A console to hold the insert rack and exhaust manifold during cooling. This saves time and bench space.
- Digestion tubes 250 ml capacity (**Quartz**).
- PID Controller with auto tuning to obtain precise temperature.

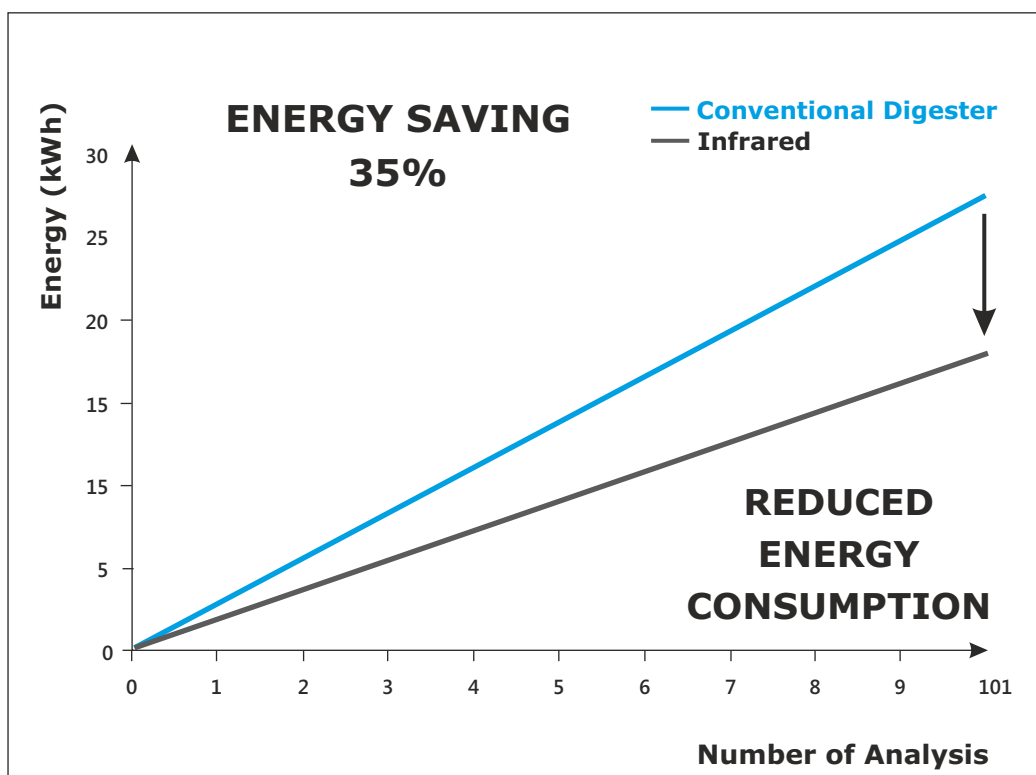


Johan Kjeldahl in his laboratory
at Carlsberg Brewery
in Copenhagen in the year 1880
(image by courtesy of Carlsberg Archives,
Copenhagen)



Temperature indicator/ Controller

Most digestions require only the control of a single temperature and time for example 420°C for 60 minutes. In such a case PID controller with auto tuning is used. When Quartz digestion tubes are used PID controllers with auto tuning serves the purpose.



Apparatus

Product Code	Description	Price / Unit ₹
100KID000006	Borosil Kjeldahl Infrared Digestion Unit 6 x 250 ml	157000.00
100KID000246	Borosil Kjeldahl Infrared Digestion Unit Unit 6 x 500 ml	253000.00

Spares

Product	Description	Price / Unit ₹
100KIDSQT250	Quartz Digestion Tube 250 ml	5050.00
100KIDSGM006	Glass Manifold	10100.00
100KIDSGP006	Glass Filter Pump for 6 Tube Kjekdhal Infrared Digestion Unit	3370.00
100KIDSAT050	Acid Resistant Tubing 5 mtr/ pack	5050.00

A comparison of acid consumption between a classical Kjeldahl system and Infrared digestor system.

	Infrared Digestor	Classical Kjeldahl
Acid volume used	12-15 ml	25 ml
Loss by evaporation	1.2 ml	7.2 ml
Consumption by 1 g sample	3.6 – 7 ml	3.6 – 7 ml
Consumption by reagents	2.1 ml	4.2 ml
Remaining in digestion tube	1.7 – 5.1 ml	6.6 – 10.0 ml
Alkali volume used	40 ml	100 ml

The table shows 3 major advantages:

- Acid loss by evaporation is minimized.
- Volume of NaOH that needs to be added during distillation is reduced
- Exact temperature controller can be achieved.

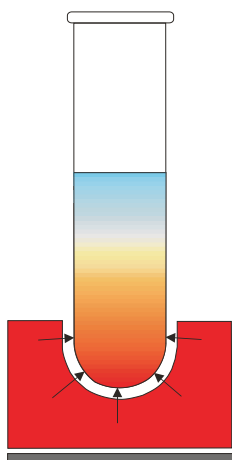
Quartz Digestion tubes : Quartz Digestion tubes are excellent for use in Kjeldahl analysis. Unlike borosilicate glass, Quartz can withstand sudden heating and cooling. Quartz tubes can withstand temperatures up to 1000°C and hence boiling of Sulfuric acid at 420°C can be easily done without the fear of breakage.

Quartz is better resistant to sulfuric acid attack at elevated temperature than borosilicate glass.

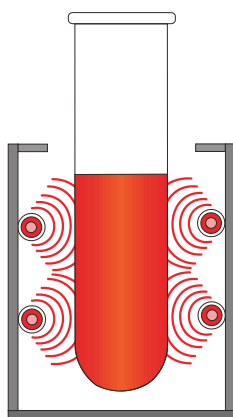
Infrared digestion compared to block digestion

Samples are heated from underneath, therefore higher requirements for users to prevent boiling delays.

Particularly uniform heating of the samples using side heaters, therefore no zones with different temperatures. Hardly any boiling delays.



Aluminum block heater



Infrared quartz heater

Specifications

Model Number	100UID000006
Number of Positions	6 x250ml
Temperature Range	Ambient to 450°C
Stability & Precision of Heating Chamber	± 1°C
Exhaust manifold	Yes
Sample Rack	Yes
Heating Chamber unit	Completely Stainless Steel
Digestion Tubes	Quartz
Electrical Requirement	230v 50 Hz 1.5 kw

Spares

Cat. No.	Spare Part
33KIDSQT250	Quartz Digestion Tube 250 ml
33KIDSGM006	Glass Manifold
33KIDSGP006	Glass Filter Pump
33KIDSAT050	Acid resistant Tubing 5mtr /pack

Kjeldahl

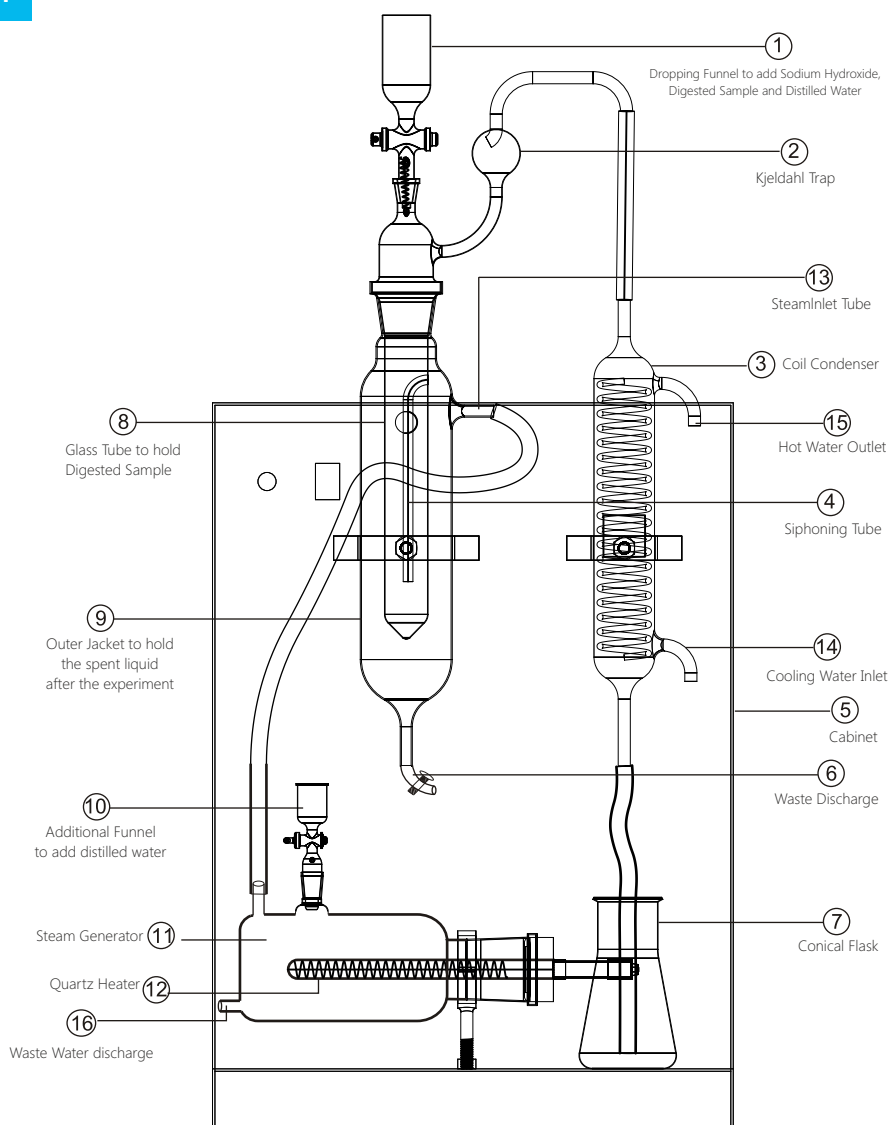
Distillation Unit



The Kjeldahl distillation unit is used to perform nitrogen analysis and protein determination by Kjeldahl method in food, feed, environmental and chemical industries after digested the sample accurately.

Operations :

- Check the distilled water level in the steam generator (11)
- Start the cooling water circulation in the condenser (3)
- Dilute the digested sample with distilled water (10-20 ml) and load it into the inner glass tube (8) through the dropping funnel (1)
- Take 25 ml of boric acid solution with indicator in 250 ml conical flask and place it at the receiver end (7)
- Take 40 ml of 40% alkali and keep it ready in the dropping funnel (1) with stop cock closed.
- Check to ascertain that all the rubber tubing is tightly fitted.
- Now start the steam generator by switching ON the heater
- The steam generator will now generate steam which passes through the outer jacket tube (9) and then bubble into the inner tube (8) which holds the sample.
- When the steam bubbles vigorously with the digested sample add 40 ml of alkali "**immediately**" and close the stopcock.
- Now the digested sample in the inner tube (8) turns dark brown.
- Continue the steam distillation until liquid ammonia collects in the boric acid solution. There will be a colour change based on the indicator used. Usually it will be red to green. Collect 100-120ml distillate in the conical flask.
- Switch off the heater and then remove the conical flask and titrate the solution using burette.



- Now stop the cooling water circulation in the condenser
- Once the heater is switched off, the digested sample automatically gets siphoned into the outer jacket (9) through the siphoning tube (8)
- Add distilled water once or twice to rinse and remove the spent reagent which might be present in the inner tube.
- The spent reagents which gets collected in the outer jacket tube (9) can later be removed by open the pinch-cock and the next experiment can be started. Normally it takes 5 to 7 minutes for distillation of one sample.

Apparatus

Product Code	Description	Price / Piece ₹
100KDU000000	Kjeldahl Distillation Unit	67300.00
100KDU000S00	Kjeldahl Distillation Unit for Soil Analysis	67300.00

Spares

Product Code	Description	Price / Piece ₹
100KDUSCF000	Dropping funnel for Kjeldahl Distillation Unit	2200.00
100KDUSGC00	Coil Condenser for Kjeldahl Distillation Unit	6750.00
100KDUSGV00	Glass vessel to hold digested sample with trap	15150.00
100KDUSGJ000	Outer Jacket for spent liquid	11800.00
100KDUSGY00	Funnel to add distilled water	1350.00
100KDUSGG00	Steam Generator (Boiler Only)	8400.00
100KDUSQH00	Quartz Heater for Kjeldahl	8400.00

COD Digestion Unit



The COD Digestion Unit is used for determination of Chemical Oxygen Demand in effluents.

The unit consists of :

- 1) Aluminium block heating unit with provision to keep 8 or 15 samples at a time in 40 mm diameter reaction vessels.
- 2) Air Condensers
- 3) Digital PID temperature indicator cum controller with built in timer for temperatures up to 250 °C
- 4) Insert rack to hold the digestion tube with Air Condenser.

MODEL

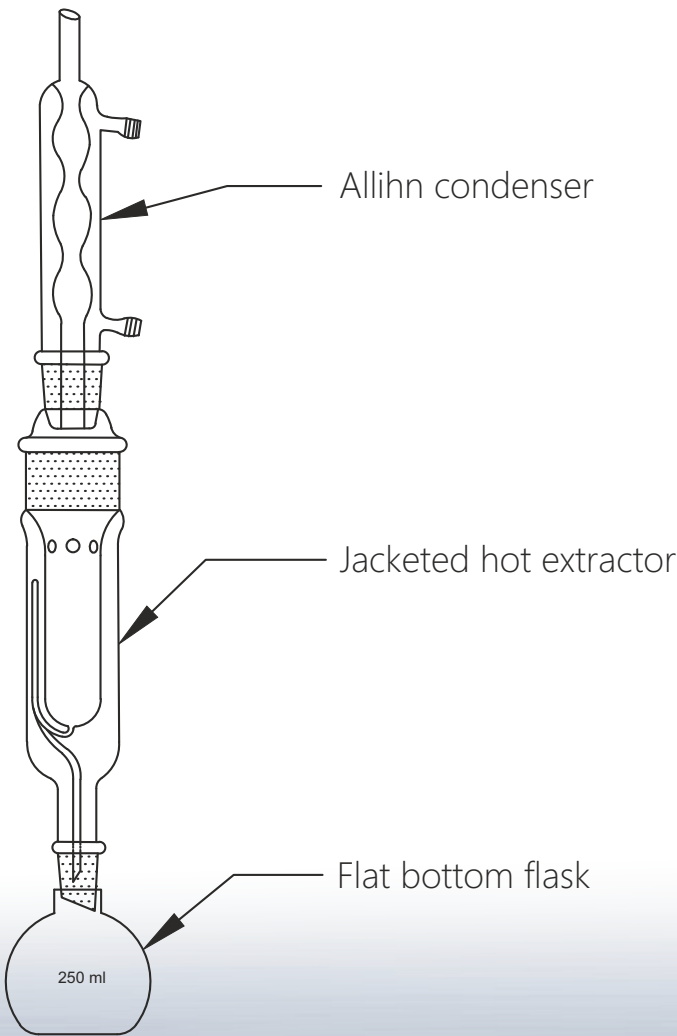
1. 8 Samples COD System
2. 15 Samples COD System

SPARES

1. COD digestion vessel in Borosilicate glass
2. Air Condenser in Borosilicate glass

Product	Description	Price / Piece ₹
100COD000008	8 Test COD Digestion Apparatus	114400.00
100COD000015	15 Test COD Digestion Apparatus	185050.00
100CODSGT250	COD digestion tubes 250 ml, 5pc / pack	7400.00
100CODSAC000	COD Air Condenser, 5pc / pack	8400.00

Soxhlet Hot Extraction



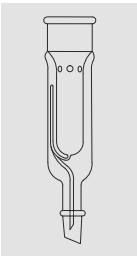
The new jacketed design protects the siphon from breakage and permits the extraction at the boiling point of the solvent. During extraction process the inner cup is enveloped in ascending solvent vapors.

The hot extraction process reduces time considerably. Compared with condensed solvent in the classical soxhlet method where the solvent temperature is below the boiling point, this method is faster because analytes are more soluble in hot vapor than in cold to warm solvent.

It not only reduces time of extraction, but also reduces power and is very easy in handling



Product	Description	Price / Piece ₹
100JHE000000	Jacketed Hot Extraction Unit with 250ml flat bottom flask	5750.00
100JHESGE100	Spare Extractor 100ml	3400.00



Water Distillation Purification Systems

Economy Water Stills

Distillation removes water miscible organics and ionisable inorganic impurities, as well as colloidal solids from water.

Borosil Glass Distillation Units continue to be the most effective and economical method of producing ultra pure water for laboratory use.

By contrast, De-ionisers are effective only in removing those substances that are ionised. Moreover, the resins contribute organic impurities to water, resulting in an environment conducive to bacterial growth in course of time.

Borosil Distillation Units are designed to produce a distillate of consistent purity. The Unit consists of horizontal Borosilicate Boilers, Condensers and a Quartz Heater. All the parts are replaceable.

Advantages

- Compact and easy to use
- Economical and ideal for colleges and general laboratory use
- Powder-coated stand for rust-free operation
- Provision for easy cleaning of the Boiler





3361 - All Glass Single Distillation Unit, With Borosilicate Boiler, Borosilicate Condenser & Quartz Heater, Horizontal Type

Cat No.	3361 - 1.5 L	3361 - 2.5 L	3361 - 4.0 L
Dist. Water Output			
Cap.(Approx)	1.5 lt/hr.	2.5 lt/hr.	4 lt/hr
Electrical requirements	230-250 volts Single phase 1.5kw Quartz heater	230-250 volts Single phase 2.2kw Quartz heater	230-250 volts Single phase 3.5 kw Quartz heater
Minimum Cooling			
Water requirement	1 Lit / min	1.5 Lit / min	2 Lit / min
Biological Activity	Pyrogen Free	Pyrogen Free	Pyrogen Free
Conductivity S/cm	<3 x 10 ⁻⁶	<3 x 10 ⁻⁶	<3 x 10 ⁻⁶
Distillate Temp.	65-75°C	65-75°C	65-75°C

Product Code	Cat No.	Output Capacity (Lt/Hr)	Total Power Consumed (kw)	Quantity per case	Price / Piece ₹
3361041	3361	1.5	1.5	1	19182.00
3361042	3361	2.5	2.2	1	31013.00
3361032	3361	4.0	3.5	1	35912.00

Standard Accessories for Cat No. 3361

Distillation Apparatus Power Supply (DAPS) enables the Distillation Unit to function automatically by switching off the heater in case the water level falls below the heating coil, thereby safeguarding the heaters.

- The sensor rods are adjusted above the heater levels, and operate on 12 Volt power supply
- DAPS emits a buzzer sound alert to indicate low water level
- The Unit is unique for each model

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
3366141	3361	1.5	Distillation Appartus Power Supply (DAPS)	11015.00
3366142	3361	2.5	Distillation Appartus Power Supply (DAPS)	11015.00
3366132	3361	4.0	Distillation Appartus Power Supply (DAPS)	11015.00

Spares for Distillation unit for Cat No. 3361

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
0336011	3361	1.5	Borosilicate Boiler with Water Leveller	5285.00
0361021	3361	1.5	Condenser	4155.00
0336012	3361	1.5	Quartz new type heater B-34	5215.00
0336031	3361	2.5	Borosilicate Boiler with Water Leveller	7470.00
0361041	3361	2.5	Condenser	7255.00
0336013	3361	2.5	Quartz new type heater B-50	7365.00
0336021	3361	4.0	Borosilicate Boiler with Water Leveller	12960.00
0362021	3361	4.0	Condenser	11040.00
0336022	3361	4.0	Quartz new type heater B-50	9205.00

3362 - All Glass Double Distillation Unit, With Borosilicate Boiler, Borosilicate Condenser & Quartz Heater, Horizontal Type

Cat	3362 1.5 L	3362 - 4.0 L	3362 - 4.0 L
Dist. Water Output cap.(Approx)	1.5 lt/hr	2.5 lt/hr	4 lt/hr
Electrical Requirements	230-250 volts Single phase 1.5x2 kw Quartz heater	230-250 volts single phase 2.5x 2.2kw Quartz heater	230-250 volts single phase 3.5x 2kw Quartz heater
Minimum Cooling Water requirement	2 Lit / min (EA)	2.5 Lit / min (EA)	2.5 Lit / min (EA)
Biological Activity	Pyrogen Free	Pyrogen Free	Pyrogen Free
Conductivity S/cm	<1 x 10 ⁻⁶	<1 x 10 ⁻⁶	<1 x 10 ⁻⁶
Distillate Temp	65-75°C	65-75°C	65-75°C



Product Code	Cat No.	Output Capacity (Lt/Hr)	Total Power Consumed (kw)	Quantity per case	Price / Piece ₹
3362041	3362	1.5	1.5 x 2 = 3	1	35442.00
3362042	3362	2.5	2.5 x 2.2 = 5.5	1	65306.00
3362032	3362	4.0	3.5 x 2 = 7	1	72639.00

Standard Accessories for Cat No. 3362

Distillation Apparatus Power Supply (DAPS) enables the Distillation Unit to function automatically by switching off the heater in case the water level falls below the heating coil, thereby safeguarding the heaters.

- The sensor rods are adjusted above the heater levels, and operate on 12 Volt power supply
- DAPS emits a buzzer sound alert to indicate low water level
- The Unit is unique for each model

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
3366241	3362	1.5	Distillation Appartus Power Supply (DAPS)	12220.00
3366242	3362	2.5	Distillation Appartus Power Supply (DAPS)	12220.00
3366232	3362	4.0	Distillation Appartus Power Supply (DAPS)	12220.00

Spares for Distillation unit for Cat No. 3362

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
0336011	3362	1.5	Borosilicate Boiler with Water Leveller	5285.00
0361021	3362	1.5	Condenser	4155.00
0336012	3362	1.5	Quartz new type heater B-34	5215.00
0336031	3362	2.5	Borosilicate Boiler with Water Leveller	7470.00
0361041	3362	2.5	Condenser	7255.00
0336013	3362	2.5	Quartz new type heater B-50	7365.00
0336021	3362	4.0	Borosilicate Boiler with Water Leveller	12960.00
0362021	3362	4.0	Condenser	11040.00
0336022	3362	4.0	Quartz new type heater B-50	9205.00

MONO QUARTZ DISTILLATION UNIT

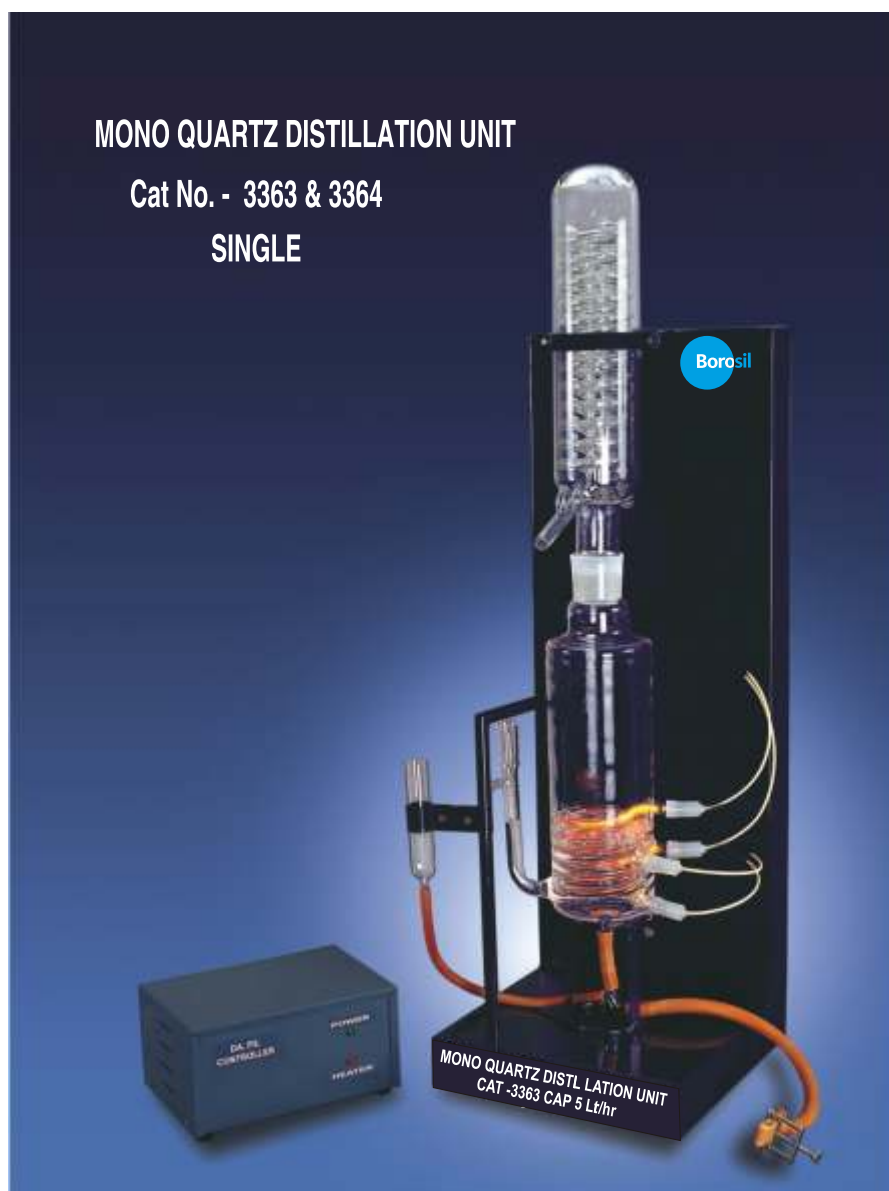
The supply of pyrogen-free distilled water is a basic requisite for Research, Analytical and Industrial Laboratories. Distilled water from metallic units does not meet the required standards. Moreover, such units are bulky and cumbersome.

Borosil Mono Quartz Distillers are very compact and are constructed of high purity quartz, thereby meeting the standard of analytical laboratories, where the purity of distilled water that is free from metallic ions and bacteria, is the chief criterion.

The Boiler is made of high purity quartz and the Condenser is made of borosilicate/quartz material. The built-in heater ensures minimum loss of heat, and production of distilled water in 2 to 3 minutes. The Unit is mounted on a powder-coated metal stand with electrical connections, and is easy to dismantle and assemble. The fibre glass insulated wire and silicone rubber boot resist high temperatures.

Advantages

- Instant output of distilled water
- Free of pyrogen and heavy metals
- Efficient borosilicate/quartz Coil Condenser
- Powder-coated stand for rust-free operation



3363 - Mono Quartz Distillation Unit, Panel Mounted with Quartz Boiler & Borosilicate Condenser, Vertical Model

Cat No.	3363 - 2.5 L	3363 - 5 L	3363 - 10 L
Dist. Water Output Cap.(Approx)	2.5 lt/ hr	5 lt/hr	10lt/hr
Electrical Requirements	230-250 volts single phase 2.2 kw	230-250 volts single phase 4.4 kw	440 volts 3phase 8.8 kw
Minimum Cooling Water requirement	1 Lit / min	2 Lit / min	2.5 Lit / min
Biological Activity	Pyrogen Free	Pyrogen Free	Pyrogen Free
Conductivity S/cm	$<3 \times 10^{-6}$	$<3 \times 10^{-6}$	$<3 \times 10^{-6}$

Product Code	Cat No.	Output Capacity (Lt/Hr)	Total Power Consumed (kw)	Quantity per case	Price / Piece ₹
3363042	3363	2.5	$2.2 \times 1 = 2.2$	1	32136.00
3363033	3363	5.0	$2.2 \times 2 = 4.4$	1	60679.00
3363038	3363	10	$2.93 \times 3 = 8.8$	1	137207.00



Standard Accessories for Cat No. 3363

Distillation Apparatus Power Supply (DAPS) enables the Distillation Unit to function automatically by switching off the heater in case the water level falls below the heating coil, thereby safeguarding the heaters.

- The sensor rods are adjusted above the heater levels, and operate on 12 Volt power supply
- DAPS emits a buzzer sound alert to indicate low water level
- The Unit is unique for each model

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
3366342	3363	2.5	Distillation Appartus Power Supply (DAPS)	11030.00
3366333	3363	5.0	Distillation Appartus Power Supply (DAPS)	12220.00
3366338	3363	10.0	Distillation Appartus Power Supply (DAPS)	22710.00

Spares for Distillation unit for Cat No. 3363

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
0363012	3363	2.5	Quartz Boiler	21915.00
0362022	3363	2.5	Borosilicate Condenser	4155.00
0363032	3363	5.0	Quartz Boiler	43140.00
0363S00	3363	5.0	Borosilicate Condenser	14245.00
0363S02	3363	10.0	Quartz Boiler	75650.00
0363S03	3363	10.0	Borosilicate Condenser	28815.00



3364 - Mono Quartz Distillation Unit, Panel Mounted with Quartz Boiler And Quartz Condenser, Vertical Model

Cat No.	3364 - 2.5L	3364 - 5L
Dist.Water Output.cap (Approx)	2.5lt/hr	5lt/hr
Electrical Requirements	230-250 volts single phase 2.2kw	230-250 volts single phase 4.4kw
Minimum Cooling water requirement	1Lit / min	2 Lit / min
Biological Activity	Pyrogen Free	Pyrogen Free
Conductivity S/cm	$<2 \times 10^{-6}$	$<2 \times 10^{-6}$

Product Code	Cat No.	Output Capacity (Lt/Hr)	Total Power Consumed (kw)	Quantity per case	Price / Piece ₹
3364042	3364	2.5	2.2	1	54970.00
3364033	3364	5.0	$2.2 \times 2 = 4.4$	1	104796.00

Standard Accessories for Cat No. 3364

Distillation Apparatus Power Supply (DAPS) enables the Distillation Unit to function automatically by switching off the heater in case the water level falls below the heating coil, thereby safeguarding the heaters.

- The sensor rods are adjusted above the heater levels, and operate on 12 Volt power supply
- DAPS emits a buzzer sound alert to indicate low water level
- The Unit is unique for each model

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
3366442	3364	2.5	Distillation Appartus Power Supply (DAPS)	11030.00
3366433	3364	5.0	Distillation Appartus Power Supply (DAPS)	12205.00

Spares for Distillation unit for Cat No. 3364

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
0363012	3364	2.5	Quartz Boiler	21915.00
0364023	3364	2.5	Quartz Condenser	21755.00
0363032	3364	5.0	Quartz Boiler	43140.00
0364S01	3364	5.0	Quartz Condenser	50020.00

The supply of pyrogen-free distilled water is a basic requisite for research, analytical and industrial laboratories. Moreover, care should be taken while choosing the materials of the Distillation Apparatus and storage vessels, so as to prevent diffusion of impurities into the distillate.

Quartz Distillation Units are manufactured with imported fused quartz tubes. The exceptionally high chemical purity and very low solubility of this material result in the production of a very high performance system. The greatest possible attention has been taken to ensure good technical performance, simplicity of use and efficiency.





3365 - All Quartz Double Distillation Unit, Demountable Boiler Panel series, Vertical Model

Cat No.	3365 1.5L	3365 2.5 L	3365 5 L
Dist.Water Output Cap.(Approx)	1.5 lt/hr	2.5 lt/hr	5 lt/hr
Electrical Requirements	230-250 volts single phase 3 kw	230-250 volts single phase 4.4 kw	440 volts 3 phase 8.8 kw
Minimum Cooling Water requirement	1 Lit / min	2 Lit / min	2.5 Lit / Min (EA)

Distillate Quality Specifications

Biological Activity	Pyrogen Free
Conductivity S/cm	<1x10 ⁻⁶
Total Organic Carbon (TOC) µg/l	<500
Organic Matter mg/lit	Nil
Total Solids mg/lit	< 0.1
Distillate Temp.	65-75°C
Total plate count	0
Standard Plate Count	0
Yeast and Mould	0
KMnO 4 color retention	1 hr
UV absorbance at 254 nm	0.007

**** The results mentioned in specifications are obtained under standard laboratory conditions**

Product Code	Cat No. No.	Output Capacity (Lt/Hr)	Total Power Consumed (kw)	Quantity per case	Price / Piece ₹
3365041	3365	1.5	1.5 x 2 = 3.0	1	92963.00
3365042	3365	2.5	2.2 x 2 = 4.4	1	163563.00
3365033	3365	5.0	2.2 x 4 = 8.8	1	298635.00

NOTE : Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance of the values obtained, limits for the pH value of grade 1 and grade 2 water have not been specified.

Standard Accessories for Cat No. 3365

Distillation Apparatus Power Supply (DAP) enables the Distillation Unit to function automatically by switching off the heater in case the water level falls below the heating coil, thereby safeguarding the heaters.

- The sensor rods are adjusted above the heater levels, and operate on 12 Volt power supply
- DAPS emits a buzzer sound alert to indicate low water level
- The Unit is unique for each model

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
3366541	3365	1.5	Distillation Appartus Power Supply (DAPS)	12205.00
3366542	3365	2.5	Distillation Appartus Power Supply (DAPS)	12205.00
3366533	3365	5.0	Distillation Appartus Power Supply (DAPS)	23045.00

Spares for Distillation unit for Cat No. 3365

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
0362013	3365	1.5	Primary Boiler	22610.00
0362015	3365	1.5	Secondary Boiler	86420.00
0362063	3365	1.5	Receiving Adapter with spring	1535.00
0362014	3365	2.5	Primary Boiler	28195.00
0362016	3365	2.5	Secondary Boiler	120245.00
0362063	3365	2.5	Receiving Adapter with spring	1535.00
0362504	3365	5.0	Primary Boiler	44415.00
0363505	3365	5.0	Secondary Boiler	232280.00
0362063	3365	5.0	Receiving Adapter with spring	1535.00
0362052	3365		Silicon 'O' Ring	465.00

Whether obtained through distillation, the De-ioniser or reverse osmosis, pure water is an excellent solvent and will readily dissolve carbon dioxide from the atmosphere to form a very dilute solution of carbonic acid with pH below 7.

The pH of high purity water cannot be measured by simply dipping the electrodes of a pH meter into a beaker full of water. Such measurement is challenging due to the quasi-absence of ions that would enable electron transport between the measuring and reference sides of the pH electrode. This often results in erratic and meaningless pH readings. However, using water high resistivity ($18.2 \Omega \text{ M cm}$ at 25°C) ensures that the pH is close to 7.0. A slightly acidic pH value does not mean that the water is grossly contaminated, as CO_2 level of less than 1 ppm will display pH in acidic range.

It is recommended to use pre-treated water with TDS less than 50 ppm to prevent scale formation in the boiler and improve the quality of distillate.



3367 - Water Softener

The newly designed Water Softener works on the Ion Exchange principle, and is used along with Quartz or Glass distillers. The Water Softener prevents the accumulation of sludge (i.e. deposits of Calcium and Magnesium salts that make the water hard). Tap water / borewell water is introduced through the inlet and softened water is drawn at the outlet. The softened water is sent into the Boiler of the Distillation Unit. The Unit can be recharged again with a saturated solution of Sodium Chloride. The Unit delivers approximately 2000 litres of soft water for one cycle of regeneration. The output is based on 100 ppm input hardness as CaCO₃. During regeneration, 20 litres of sodium chloride solution is passed through the Water Softener gradually, for 1 hour.

Product Code	Cat No.	Quantity Per case	Price / Piece ₹
3367000	3367	1	15450.00

3369 - Silicone tubing for distillation unit & laboratory application

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

The technical data given by Borosil must be used as a guide only. Borosil does not guarantee the accuracy of information and is not responsible for its end use.

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

3369003 - 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	For Cat No.	Size	Quantity per case in mtr	Price for 10 Meter ₹
3369001	3369	4mm ID x 7mm OD	10	1375.00
3369002	3369	6 mm ID x 9 mm OD	10	1425.00
3369003	3369	8 mm ID x 12 mm OD	10	2985.00
3369004	3369	10 mm ID x 14 mm OD	10	3755.00

3370 - Cabinet Still



- Compact
- Economical
- Ease Of Maintenance
- Made From Borosilicate Glass
- High Purity Yield
- Automatic operation

- Designed with an inbuilt level sensor and cut-off device in case the water in the Boiler drops below the desired level
- Cleaning is easier due to the integral funnel that facilitates addition of acid to the Boiler and rota-flow stopcock for draining out sediments
- Available in Single Distillation model with output capacity of 4 lit/hr
- Conductivity is 1-3 μS in case of Single Distillation
- The unique design of the Condenser ensures effective cooling and low distillate temperature
- Pyrogen-free output
- The acrylic safety screen and cabinet lid are removable, enabling easy access to the glassware components

Cat No.	3370 - 4.0 L
Dist. Water Output Cap.(Approx)	4 Lt/hr
Electrical requirements	230-250 volts Single phase 3 kw Quartz heater
Cooling	
Water consumption	2 Lit / Min
Biological Activity	Pyrogen Free
Conductivity S/cm	$<3 \times 10^{-6}$
Distillate Temp.	65-75°C

Product Code	Cat No.	Output Capacity (Lt/Hr)	Total Power Consumed (kw)	Quantity per case	Price / Piece ₹
3370032	3370	4	3	1	66696.00

Spares for Cabinet Still Cat No. 3370

Product Code	Cat No.	Output Capacity (Lt/Hr)	Description	Price / Piece ₹
3370S01	3370	4	Borosilicate Boiler With Leveller - Cabinet 4L	15510.00
3370S02	3370	4	Borosilicate Condenser - Cabinet 4L	15510.00
3370S03	3370	4	Quartz B - 50 Heater - Cabinet 4 L	11630.00
3370S04	3370	4	DAPS - Cabinet 4 L	21315.00

LabQuest by Borosil

Laboratory equipments and tools



The brand name **Lab Quest** is derived out of Borosil's appreciation & recognition of the awesome work that is done by chemists in laboratories.

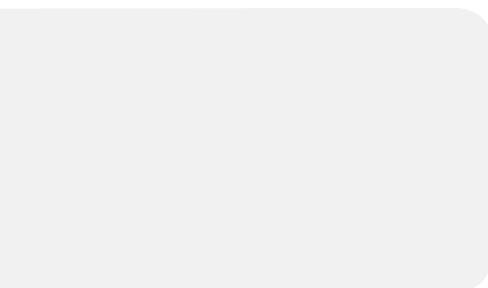
Under this brand Borosil plans to introduce a range of laboratory tools and equipments backed by Borosil's commitment & dependability.

This year Borosil brings to you.....

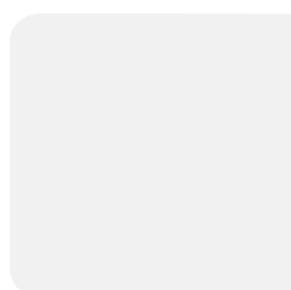
Vortex Mixtures & Micro Centrifuge



Magnetic Stirrers



Shakers





World's “MOST POWERFUL” Vortexer!!!

- Tiny Vortex with small footprint
- Delivers upto 4500 RPM for thorough mixing & quick vortexing
- Brushless DC motor for maintenance free long life
- Orbital diameter of 4.5 mm
- Smart and Robust design - press activation with suspension
- Robust construction with Die cast Aluminium base and rubber pads for stable and silent operation
- Inbuilt counterbalance for stable operation

Specifications	VMP
Max RPM	4500 rpm
Orbital diameter	4.5 mm Ø
Motor Type	Brushless DC
Max tube diameter	30 mm
Max Load Capacity	500 gm
Press activation	Yes
Protection class	IP 40
Dimensions (WxDxH) in mm	100 x 100 x 67 mm
Weight	550 gm



BLDC Motor



Counter balance for stable operation



Suspension for smooth operation



Tiny footprint

Product Code	Model	Description	Price / Unit ₹
100VMP00045000	VMP	Personal Vortex Mixture	9350.00



- 3 way switch (On/Off/Touch)
- Brushless DC motor for maintenance free long life (VMSP)
- Orbital diameter of 4 mm
- Adjustable speed
- Inbuilt counter balance for study & safe operation
- Timer setting 0 to 999 minutes (VMSP)
- Digital display toggles between speed and time every 5 second (VMSP)
- Programmable pulse mode function (VMSP)
- Silent operation
- Robust construction for stable operation
- Universal Power Supply (VMSP)

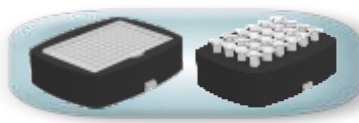
Specifications	VMS	VMSP
Max RPM	2800 rpm	4200 rpm
Orbital diameter	4 mmØ	
Motor Type	AC Motor	Burshless DC
Digital Display	No	Yes
Max Load Capacity	500 gm	
Speed Setting	Yes	
Timer Setting	No	Yes (min/sec)
Dimensions (WxDxH) in mm	205 x 136 x 138.5 mm	
Weight	3 kg	
Power Supply	220 VAC	24VDC
Attachments (optional)	Attachments for microplate, Beaker and microtubes for different shaking applications	



BLDC Motor



Counter balance for stable operation



Optional attachments for different shaking applications

The essential benchtop vortex for everyday mixing operations in the lab.

Product Code	Model	Description	Price / Unit ₹
100VMS00028000	VMS	Standard Vortex Mixture 2800 rpm	10450.00
100VMSP0042000	VMSP	Standard Vortex Mixture 4200 rpm	15950.00

Product Code	Description	Price / Unit ₹
100VMSP00UP000	Labquest Universal Platform	1500.00
100VMSP00MPF00	Labquest Microplate Holder	1500.00
100VMSP00MTF00	Labquest Microtube Holder	1500.00
100VMSP01FH250	Labquest Flask Holder 250 ml	1500.00

PRICES EXCLUSIVE OF TAXES



This feature rich micro centrifuge is specially designed to suit your need for microfiltration and quick spin downs

- 8 place closed rotor ensures better airflow, greater efficiency with quiet operation and low heat generation
- Electronic Brake for immediate stop on lid opening for user safety
- Save time by doing quick runs by simply closing and opening the lid
- Next gen design with Digital Display
- Robust construction for long life
- Microprocessor controlled enables Digital variable speed and time setting with last run memory function
- Imbalance Detection with auto cut off
- User enabled Digital Calibration function
- Whisper quiet operation
- Small footprint saves valuable bench space - suitable for use in hoods and cold rooms

Specifications	MCF 08 VT	
Rotor Capacity	8 place closed rotor for 1.5/2.0 ml Microtubes	
Maximum RPM/RCF (g)	6000 / 2000 g	
Display	Digital Display	
Imbalance Detection	Yes	No
Noise Level	< 55 db	
Variable Speed	Yes (1000-6000 RPM in steps of 100 RPM)	
Timer	1-25 Minutes & infinite mode	
Dimensions (WxDxH) in mm	162 x 157 x 115	
Rotors and Adaptors (included in standard pack)	8 Slot x 1.5/2.0 ml Closed Rotor	
	PCR Strip Rotor (2 x 8 x 0.2 ml)	
	Reduction adaptors for 0.2/0.4 ml Microtubes	

* Fixed speed version (M08) for specific speed can be made available.



Electronic Safety Brake for user safety



Imbalance Detection with automatic cut off



Digital Display for Speed and Time



Microprocessor controlled

Product Code	Model	Description	Price / Unit ₹
100MCF00800VT0	MCF08VT	Micro Centrifuge 8TubeVariable Speed Time	11000.00

PRICES EXCLUSIVE OF TAXES



- Robust chemical resistance ceramic top made of nano crystalline glass ceramic resistant to temp. shocks and liquid splash
- Elevated control panel for protection against leaking liquids
- Large display for easy setting for all values. All set values are readily visible without toggle. No shared display
- Slip detection mode to detect stir bar slip and automatically bring the stirring operations to most optimal limits
- 3 heating modes for rapid, gradual & accurate heating
- Pulse mode for vigorous mixing of liquids
- Constant speed even with change of load or viscosity
- Possible to accommodate a PT-1000 temp. probe for accurate operation. It is available as an optional accessories
- Powerful BLDC motor delivers constant speed under varying load condition
- Safe Temperature setting for safety & to avoid overheating
- Remote control panel operator
- RS - 232 interface

Specifications	MHPS 550
Stirring Quantity in Ltr (max)	20 L
Heating Temp Range (°C)	Ambient to 550°C Ambient to 350°C
Speed Range (rpm)	200 - 2200 rpm
Number Of Stirrer positions	1
IP Rating	IP 21
Setup plate Feature	Ceramic Plate
RS 232 interface	Yes
Temp Accuracy of setup plate	±1°C
Temp Accuracy of PT-1000 Probe	±1°C
Safety temp circuit	Yes
Product weight (KG)	4.8 kg
Slip detection	Yes
RTD display	Yes
External control panel	Optional
Dimensions (WxDxH)	220 x 330 x 85 mm
Set-up Plate Dimensions	180 x 180 mm



STIR BAR
SLIP DETECTION



Remote Operation Panel



Pulse mode for thorough mixing

Product Code	Model	Description	Price / Unit ₹
100MHPS0103500	MHPS 350	Magnetic Hot Plate Stirrer Single Position 350 C	41800.00
100MHPS0105500	MHPS 550	Magnetic Hot Plate Stirrer Single Position 550 C	41800.00

Product Code	Description	Price / Unit ₹
100MHPS01PT100	Labquest Temperature Probe PT 1000	6000.00
100MHPS01PS000	Labquest Probe Stand	1500.00



- High performance multi position stirrer with 5/10/15 stirring positions - optimum use of laboratory space
- Slipless speed regulation
- Variable speed and time setting with digital display
- Speed ranging from 300 to 1500 RPM
- Timer setting from 1 to 999 minutes
- Temperature setting from ambient to 120° C
- Homogeneous temperature distribution across heating plate using plurality of sensors
- Brushless motor for long life and maintenance free operation
- Simultaneous display of actual and set temperature
- Closed design allow easy cleaning and protects the equipment against penetration of liquids
- Pulse mode operation for vigorous mixing
- Wear free magnetic coil
- Non slip strong rubber feet
- Water proof heater with in built safety cutoff for ultimate safety in laboratory

Specifications	MHPS 5P	MHPS 10P	MHPS 15P
Motor Type	BLDC motor		
Number of Stirring positions	5	10	15
Stirring quantity max. (H ₂ O)	2 L	4 L	6 L
Stirring bar length max.	30 mm		
Heat temperature range	Room temp. to 120°C		
Speed control	10 RPM /Steps		
Set-up plate material	stainless steel plate with silicone Films		
Protection class	IP 42		
RS 232 interface	Yes		
Timer advanced Series	1 MIN TO 999 MIN		
Set-up plate dimensions	467 x 128		
Dimensions (WxDxH) in mm	562 x 136 x 75		
Weight	4 kg	6 kg	8 kg
Programable pulse	30 to 99 secs		

Product Code	Model	Description	Price / Unit ₹
100MHPS0515000	MHPS 5P	Magnetic Hot Plate Stirrer 5 Position	42350.00
100MHPS1015000	MHPS 10P	Magnetic Hot Plate Stirrer 10 Position	59950.00
100MHPS1515000	MHPS 15P	Magnetic Hot Plate Stirrer 15 Position	82500.00

PRICES EXCLUSIVE OF TAXES



The motorless magnetic stirrer is a truly maintenance free ultra flat stirring device for various laboratory applications

- No moving parts- truly maintenance free
- Low aspect ratio (just 12 mm thick)
- Software driven gradual acceleration
- Microprocessor controlled with last run memory feature
- Pulse mode - reverses the direction every 30 secs for proper mixing
- Universal power supply- small wall mount adaptor
- IP 64 complaint design (Water spill resistant)
- Corrosion resistant SS top surface to fight harsh chemicals
- Synchronized speed setting (multiplate)



Extremely sleek design



Pulse mode for thorough mixing



SS top for corrosion resistance



Microprocessor controlled

Specifications	MS One	MS Four
Max RPM	1500 rpm	1200 rpm
Speed Setting	from 15 rpm at every 50 rpm	
Time Setting	1 to 99 mins	
Digital Display	Yes	
Load capacity	800 ml	500 ml (each station)
Recommended bar length	25 mm	
Pulse function	Yes	
Sync Mode	NA	Yes
Last run memory	Yes	
Dimensions (WxDxH) in mm	191 x 124 x 16.5	457 x 126 x 15.5
Weight	400 gm	1.5 kg
Protection Class	IP 64 compliant design (Water spill resistant)	

Product Code	Description	Price / Unit ₹
100MS000115000	Motorless Magnetic Stirrer Single Position	12100.00
100MS000412000	Motorless Magnetic Stirrer Four Position	24200.00



The Microplate Shaker is an essential instrument for mixing in individual micro plates of different types

- 4mm orbital motion for (iShak Quattro) & 2mm (iShak Uno) thorough mixing in microplates
- Brushless DC motor for quiet operation and maintenance free long life
- Microprocessor controlled
- Adjustable speed ranging from 100 to 1200 RPM
- Adjustable timer
- Microplates platform and rubber o-ring provide firm grip of plate holding
- Easy access to all 4 plates for loading and unloading
- Digital display for ease of operation
- Pulse mode for vigorous shaking
- Independent start switch activates shaker for preset speed and time for repeatability in tests
- Low voltage instrument ensure user and product safety
- Accepts all standard microplates
- Easy to clean and maintain

Specifications	PL Four
Motor Type	BLDC motor
Orbital Motion	4 mm
Number of plates	4
Variable Speed	100 RPM to 1200 RPM
Run Time	1 to 99 mins & inf
Pulse mode	Yes
Maximum Volume	4 x 384 x 60 µl
Programmable	No
Inbuilt Counterbalance	Yes
Dimensions (LxWxH)	230 x 260 x 11mm
Digital Display	Yes
Power Consumption	36 W
Attachments	Acc. All standard

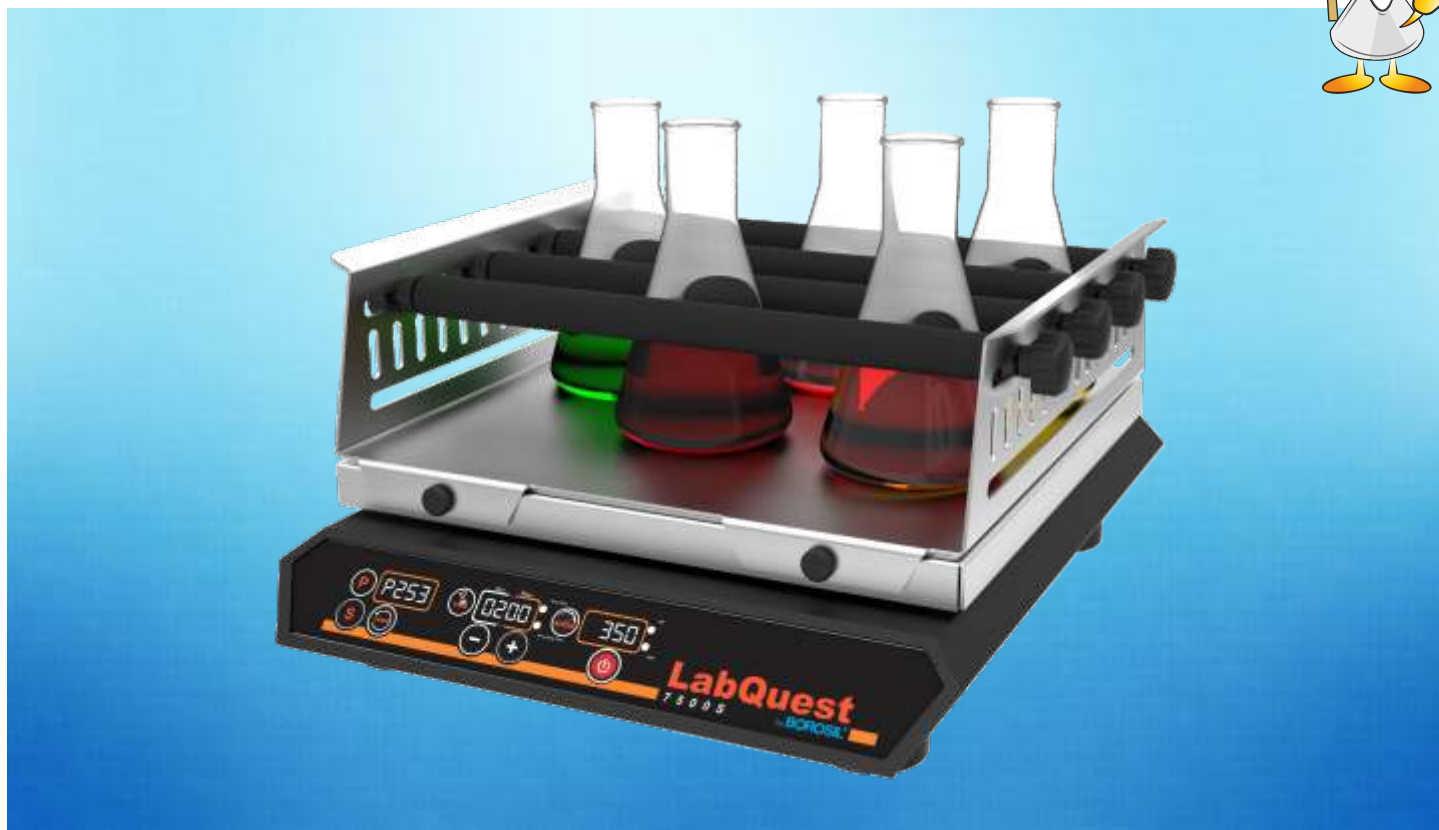


Counter balance
for stable operation



Microprocessor
controlled

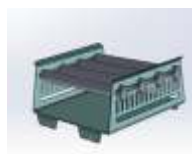
Product Code	Model	Description	Price / Unit ₹
100PL000400000	PL FOUR	Plate Shaker Four Position	37400.00



- Platform shakers with true Orbital and linear reciprocating motion, for a shaking of 7.5 Kg mass
- Brushless DC motor for long life and maintenance free operation
- LED display for speed and time adjustment. Speed, time and mode operation can be viewed simultaneously
- Speed ranging from 50 to 500 RPM with orbital shaking of 10mm
- Time ranging from 0 to 99 hours plus 0 to 60 minutes and continuous mode operation
- Clockwise and anti-clockwise shaking system
- Program mode allows one to set clock wise, counter clock wise, speed, time, dwell time, sequence and loop operation
- Last run memory feature
- Different attachments platform makes it possible to use almost all shapes and sizes of vessels
- RS-232 interface for remote operation
- Protection rating of IP21

Specifications	10 mm Dia		20 mm Dia	
Shaking movement	Linear	Orbital	Linear	Orbital
Orbital diameter	10mm		20mm	
Max Weight	7.5 kg			
Speed	50 RPM TO 500 RPM		50 RPM TO 300 RPM	
Motor Type	Brushless motor			
Time Setting Range	0-99HRS & 0-60min			
Run Type	time/cont.			
Dimensions (WxDxH) in mm	350 x 408 x 99			
IP	IP 21			
Rs232 interface	USB + Db9			

Universal attachment



Flask Capacity
250ml x 9 / 500 ml x 6

Plastic clamp attachment



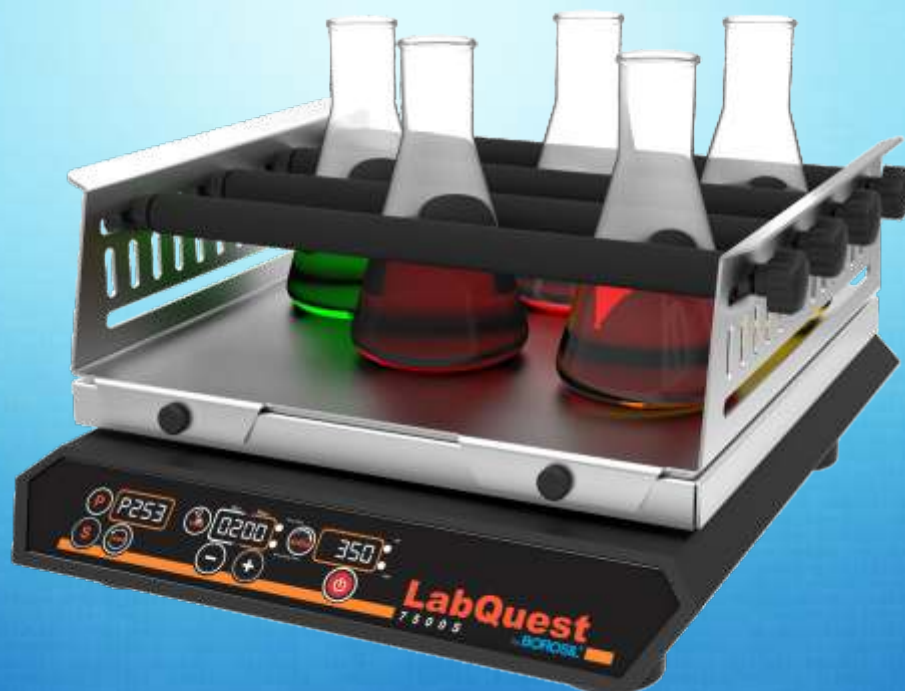
Flask Capacity
250ml x 9 / 500 ml x 9

SS clamp attachment



Flask Capacity
250ml x 9 / 500 ml x 9

Product Code	Model	Description	Price / Unit ₹
100S0000075000	7500S	7.5kg Shaker	64900.00



Accessories for Platform Shaker

Product Code		Price / Unit ₹
100S00009UPB75	Universal platform with adjustable bars (Flask capacity 9 x 250ml, 6 x 500 ml)	8000.00
100S00009SRT75	Disk attachment Base plate with slip resistance tray	4608.00
100S02509BPP75	Base plate with 9 plastic clamps : 9 x 250 ml	8000.00
100S05009BPP75	Base plate with 9 plastic clamps : 9 x 500 ml	8500.00
100S00000FA075	Funnel Attachment	9000.00
100S02509BPS75	Base plate with 9 Stainless steel clamps : 9 x 250 ml	10000.00
100S05009BPS75	Base plate with 9 Stainless steel clamps : 9 x 500 ml	12000.00
100S01001SSC00	Stainless steel Clamp for 100 ml flask	500.00
100S01501SSC00	Stainless steel Clamp for 150 ml flask	600.00
100S02501SSC00	Stainless steel Clamp for 250 ml flask	600.00
100S05001SSC00	Stainless steel Clamp for 500 ml flask	900.00
100S10001SSC00	Stainless steel Clamp for 1000 ml flask	1000.00
100S00000VDRL0	VDRL attachment	2500.00





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The Trademark **BOROSIL®** has acquired a very high reputation and goodwill by virtue of long, extensive and continuous use. The said trademark is associated and identified exclusively with the goods manufactured, marketed and sold by **Borosil Glass Works Ltd.**

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Borosil Glass Works Ltd.

CIN: L99999MH1962PLC012538

Registered Office : Khanna Construction House, 44, Dr. R.G. Thadani Marg, Worli, Mumbai - 400 018

Corporate Office : 1101, Crescenzo, G-Block, Opp. MCA Club, Bandra Kurla Complex, Bandra (E), Mumbai - 400 051, India

Tel :

022 6740 6300

Fax :

022 6740 6514

Email :

borosil@borosil.com

Website :

www.borosil.com

MUMBAI

Block No. 403/404, 4th Floor,
Kaliandas Udyog Bhavan,
Near Century Bazar, Prabhadevi,
Mumbai - 400 025.
Tel : 022-6740 6400
Fax : 022-6740 6444
Email: mumbaisales@borosil.com

DELHI

19/90, 'P' Block,
Connaught Circus,
New Delhi - 110 001.
Tel : 011-2334 3897/2374 2136
Fax : 011-2374 6689
Email: delhi@borosil.com

CHENNAI

New No. 20 (Old No.9)
1st Floor, Bragadamal Road,
Nungambakkam,
Chennai - 600 034.
Tel : 044 - 2822 6012/13
Fax : 044 - 2822 6014
Email: chennai@borosil.com

KOLKATA

Dabriwala House, 4th Floor,
10 C Middleton Row,
Kolkata - 700 071.
Tel : 033-2229 9166
Fax : 033-2226 2045
Email: calcutta@borosil.com

AHMEDABAD

214, Sakar V,
Behind Natraj Cinema,
Off Ashram Road,
Ahmedabad - 380 009
Tel : 079 - 6661 3175
Email: mumbaisales@borosil.com