



Laboratory Plasticware



Shiv Dial Sud & Sons

Founded in 1943, **SHIV DIAL SUD & SONS** is universally recognized as leading and reliable Manufacturer and Exporter of Scientific and Laboratory Equipment for use in Education, Health-care and Vocational Training.

We are an ISO 9001:2015 Quality System Certified Organization.

For the last 50 years, all of our production is being exported to more than 80 countries across the world. It is our proud achievement of having been repeatedly awarded for our Outstanding Export Performance by Government of India .

We have been working as OEM for some of the best known names in our trade.

This catalogue contains **CHEMPLAST** Plasticware products for use in Laboratories. We shall be glad to receive inquiries for any products not listed in the catalogue.

We are proud of our sincere efforts in the service of science education and our endeavor to continuously continuously make improvements and to offer our quality products at competitive prices.



ASPIRATOR BOTTLE, POLYPROPYLENE

Polypropylene, autoclavable. The leakproof spigot screwed to the bottle body requires only a half turn to open or close. Threads should be totally disengaged before Autoclaving.

	Capacity, Ltr.
CH10026/10	2
CH10026/1	5
CH10026/3	10
CH10026/5	20



BEAKERS, TPX

- Manufactured from high purity polymethyl pentene (TPX).
- Tapered stacking style saves space and make it easy to handle.
- All sizes have easy to read silk-screened graduations.
- Precise pouring spouts.
- Can be autoclaved.

	Capacity, ml
CH10157/1	50
CH10157/3	100
CH10157/5	250
CH10157/7	500
CH10157/9	1000
CH10157/10	2000
CH10157/11	5000
CH10157/12	10000



BEAKERS

Polypropylene, have excellent clarity and good chemical resistance, raised graduation on outer surface. With spout. Polypropylene.

	Capacity, ml
CH10155/2	25
CH10155/1	50
CH10155/3	100
CH10155/7	250
CH10155/9	500
CH10155/11	1000
CH10155/13	2000
CH10155/15	5000



BEAKERS, POLYPROPYLENE

Available in polypropylene, these beakers are with screen printed graduation.

	Capacity, ml
CH10160/1	50
CH10160/2	100
CH10160/3	250
CH10160/4	500
CH10160/5	1000

BEAKERS SET, Set of 5, POLYPROPYLENE

Beakers with screen printed graduation.
CH10160



BEAKERS, POLYCARBONATE

Available in polycarbonate, these beakers are with screen printed graduation.

	Capacity, ml
CH10162/1	50
CH10162/2	100
CH10162/3	250
CH10162/4	500
CH10162/5	1000

BEAKERS SET, Set of 5, POLYCARBONATE

Beakers with screen printed graduation.

CH10162



BEAKERS, WITH HANDLE (MEASURING JUGS)

Polypropylene, autoclavable and have non-drip spout. These jugs have raised graduations, provide excellent contact clarity and are provided with excellent thumb grip on handle.

	Capacity, ml
CH10165/1	500
CH10165/3	1000
CH10165/5	2000
CH10165/7	3000
CH10165/9	5000



BEAKERS, WITH HANDLE DUAL SCALE

Molded in polypropylene are autoclavable and have excellent contact clarity when filled with liquids. The unique feature of these jugs is the dual graduation scale which can measure the liquids in ml as well as in US Oz. These permanently raised molded graduations are very well visible. These jugs have excellent chemical resistance. Thumb grip on handle makes handling more convenient.

	Capacity, ml
CH10166/3	500
CH10166/4	1000
CH10166/5	2000
CH10166/6	3000



BEAKERS, WITH HANDLE, TPX

- Manufactured from high purity polymethyl pentene (TPX)
- Rectangular handle for easy carrying and pouring
- All sizes have easy to read silk-screened graduations
- Precise pouring spouts
- Can be autoclaved

	Capacity, ml
CH10167/1	100
CH10167/2	250
CH10167/3	500
CH10167/4	1000
CH10167/5	2000
CH10167/6	5000
CH10167/7	10000



BOTTLE, REAGENT, NARROW MOUTH

Polypropylene, with screw cap.

	Capacity, ml
CH10250/10	4
CH10250/12	8
CH10250/14	15
CH10250/16	30
CH10250/1	60
CH10250/3	125
CH10250/5	250
CH10250/7	500
CH10250/9	1000



BOTTLE, DROPPING

T.K. Pattern, plastic.

	Capacity, ml
CH10264/5	60
CH10264/7	125



BOTTLE, REAGENT, WIDE MOUTH

Polypropylene, with screw cap.

	Capacity, ml
CH10252/10	30
CH10252/1	60
CH10252/3	125
CH10252/5	250
CH10252/7	500
CH10252/9	1000



WASH BOTTLES

Low Density polyethylene squeeze bottle with jet through screw cap.

	Capacity, ml
CH10275/1	125
CH10275/3	250
CH10275/5	500



WASH BOTTLES

Made of Low Density Polyethylene, translucent & unbreakable. With built in delivery tube making it a one piece wash bottle. These bottles are graduated on the outer surface to give an approximate idea about the volume of solution filled or dispensed.

	Capacity, ml
CH10278/1	250
CH10278/3	500
CH10278/4	125



WIDE MOUTH SQUARE BOTTLE

This autoclavable bottle, made of Polypropylene, can be used for storing & shipping chemicals & reagents. Being wide mouthed, it is always convenient to pour in & take out the reagents. The built in depressions on two sides provide excellent grip while holding this bottle .

	Capacity, ml
CH10282	4000



NARROW MOUTH BOTTLE

This autoclavable bottle, made of polypropylene, can be used for storing & transferring chemicals and other reagents safe & sound.

	Capacity, ml
CH10280	4000



HEAVY DUTY VACCUM BOTTLE

This autoclavable bottle, made of Polypropylene, has thick walls, is rugged & can be used for repeated applications of vacuum .

	Capacity, ml
CH10284	2000



CARBOY

Carboys, made of Polypropylene, are much lighter than glass. These autoclavable, dependable & durable Carboys are provided with wide handles making it convenient while carrying or pouring purposes.

	Capacity, Ltr.
CH10286/1	10
CH10286/3	20



CARBOY WITH STOP COCK

These carboys are molded in polypropylene. The leakproof spigot screwed to the body makes these carboys dependable & durable. These carboys are an excellent replacement for glass carboys and can be used for storing & dispensing different laboratory solutions. These carboys are autoclavable for 15 minutes at 121°C & 15 Psi pressure. Threads should be disengaged before autoclaving.

	Capacity, Ltr.
CH10290	10 Ltr.



CARBOY WITH STOP COCK

Adding in line of Aspirators, these Polypropylene Carboys are autoclavable, dependable & durable. These are also equipped with a leakproof spigot screwed to the body. These carboys are in excellent replacement for glass carboys and are used for storing & dispensing distilled water & other laboratory solutions

	Capacity, Ltr.
CH10288/1	10
CH10288/3	20



BURETTE, ACRYLIC

Transparent acrylic body and a leakproof stopcock fitted with a self lubricating PTFE plug. Each Burette is individually calibrated to give maximum accuracy. Acrylic body is unaffected by dilute mineral acids and bases except Hydrochloric Acid and Ammonium Hydroxide.

	Capacity, ml
CH10500/1	25
CH10500/3	50
CH10500/5	100



BURETTE CLAMP

High density polythene body, non-corrosive, unbreakable, easy to fit burette, graduation can be seen clearly along its entire length.

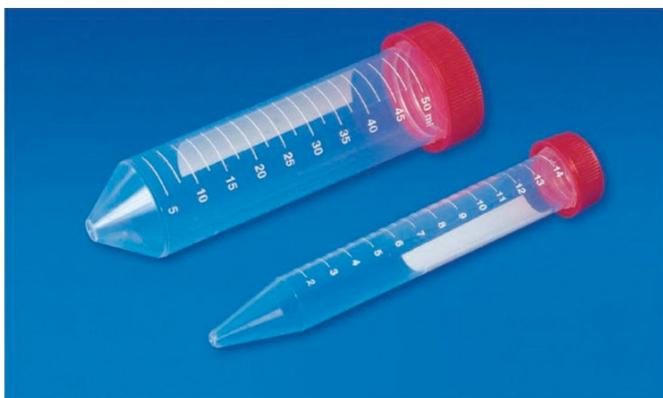
CH10550/1	For One Burette
CH10550/2	For Two Burettes



CENTRIFUGE TUBE ROUND BOTTOM

Centrifuge tubes with round bottom are moulded in Polypropylene & Polycarbonate. Tubes have excellent clarity and are strong enough to be used upto 50,000xG. These tubes can be autoclaved, however, repeated autoclaving in PC tubes reduces their mechanical strength.

CAC10104/1	16 ml Cent. Tube PP
CAC10104/2	50 ml Cent. Tube PP
CAC10104/3	16 ml Cent. Tube PC
CAC10104/4	50 ml Cent. Tube PC
CAC10104/5	Cap. For 16ml Cent. Tube
CAC10104/6	Cap. For 50ml Cent. Tube



CENTRIFUGE TUBE

Printed graduations and writing area for Sample Identification. Caps can be closed with one hand. Available in bulk non-sterile and pre-sterilized formats. 50ml rated to 13,000g; 15ml to 13,000g. Certified RNase/DNase free. Available in Racked Formats. Conical Bottom tube with Cap

	Capacity, ml	Qty./pack
CAC10102/1	15	500
CAC10102/2	15, Pre-Sterilized	500
CAC10102/3	15, Racked	500
CAC10102/4	15, Racked, Pre-Sterilized	500
CAC10102/5	50	500
CAC10102/6	50, Pre-Sterilized	500
CAC10102/7	50, Racked	300
CAC10102/8	50, Racked, Pre-Sterilized	300



OAK RIDGE CENTRIFUGE TUBES

Oak ridge centrifuge tubes, made of Polypropylene, have excellent contact clarity and can be used upto 50,000xG. The screw cap is fitted with silicon O-Ring making it totally leakproof. These tubes should not be used below 4°C

	Capacity, ml
CAC10106/1	30
CAC10106/2	50
CAC10106/3	100

CENTRIFUGE TUBE BOX, PP

- Provides durable and rugged alternative to cardboard or foam racks
- Can withstand temperature from -90°C to 121°C
- With distinctive green color on 15 ml and blue color on 50 ml.
- All grids are properly indexed with clear lid that provides easy tube identification.
- Can be autoclaved.

	Capacity, ml
CAC10150/1	15
CAC10150/2	50



MICRO PESTLE

This double ended pestle's one end fits 1.5ml. Micro centrifuge tube & the other one fits 0.5 ml. Micro centrifuge tube.

CAC10210/1

MICRO CENTRIFUGE TUBES

- * Click Seal High-Capacity Micro centrifuge tubes fit all popular micro centrifuge rotors
- * Writing surface on flat cap and side wall for quick sample ID
- * Superior clarity and external graduations ensure accurate, reproducible lab results
- * Withstands temperatures from +121°C to -80°C and RCF of 27,000xg with proper rotor support
- * Positive Click Seal design allows repeated cap closure and eliminates pressure-induced popping of caps during incubation
- * Certified RNase-DNase Safe for Total Sample Integrity.
- * Thin membrane in Cap Center Allows easy access to Sample by Syringe Needle.
- * Click Seal Micro centrifuge Tubes 0.5ml, 1.5ml, 2.0ml are engineered to close with a "snap" and stay closed during centrifugation up to 18,000 RCF - even during boiling or autoclaving.
- * A wide range of colored tubes for easy sample identification.
- * The tubes are manufactured of a copolymer material to offer exceptional strength and chemical resistance.
- * These tubes feature ultra-smooth conical bottoms, which allow for 100% visibility and no sharp "gates" to cause cuts and scratches.
- * Diamond polished molds allow tubes to be manufactured without contaminating releasing fluids.



MCT FLOAT RACK

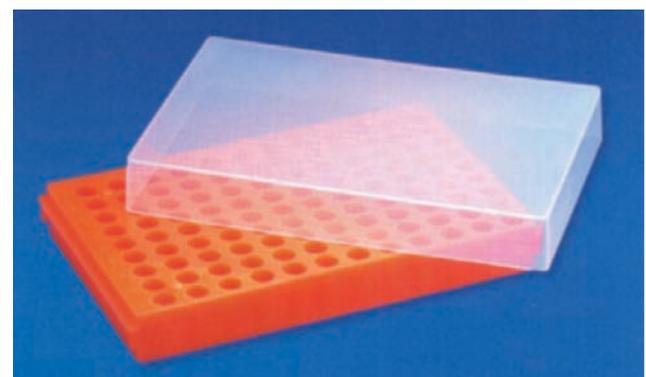
This Float Rack mould in Polypropylene is quite compact, autoclavable and can hold 16 micro centrifuge tubes for incubation in water baths. Easy to load, these are essential in microbiology & immunology labs. The surface of the rack has raised alpha-numeric index for easy identification and has a central rod handle for convenient lifting.

CAC10250 | 16 MCTs of 1.5 ml.

	Qty. 1000 per pack
CAC10202/1	Click Seal MC Tube 0.65 ml, Natural
CAC10202/2	0.65 ml Graduated MCT, Rainbow
CAC10202/3	0.65 ml Graduated MCT, Red, Yellow, Green, Blue, Violet
CAC10202/4	0.65 ml Graduated MCT, Amber
CAC10202/5	Click Seal MC Tube 1.7 ml, Natural
CAC10202/6	Graduated MCT, Rainbow
CAC10202/7	1.7 ml Graduated MCT, Red, Yellow, Green, Blue, Violet
CAC10202/8	1.7 ml Graduated MCT, Amber
CAC10202/9	Click Seal MC Tube 2.0 ml, Natural
CAC10202/10	Graduated MCT, Rainbow
CAC10202/11	2.0 ml Graduated MCT, Red, Yellow, Green, Blue, Violet
CAC10202/12	Graduated MCT, Amber

LOW RETENTION TUBES

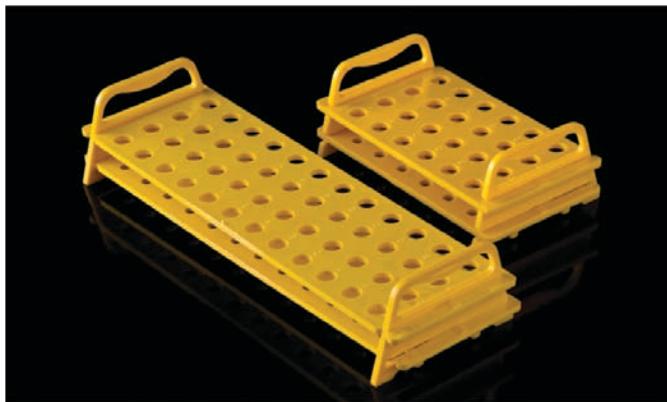
CAC10202/13	Click Seal MC Tube 0.65 ml, Natural, Low Retention
CAC10202/14	Click Seal MC Tube 1.7 ml, Natural, Low Retention
CAC10202/15	Click Seal MC Tube 2.0 ml, Natural, Low Retention



MCT TWIN RACK

Made of Polypropylene Twin Purpose Rack for both 0.5 ml and 1.5 ml micro centrifuge tubes. Each side has 108 holes for 0.5 & 1.5 ml. MCT's respectively. The transparent top provides an excellent view as well as a protection cover for the tubes stored. Each face of the base has a unique alpha-numeric index for easy identification of the tube.

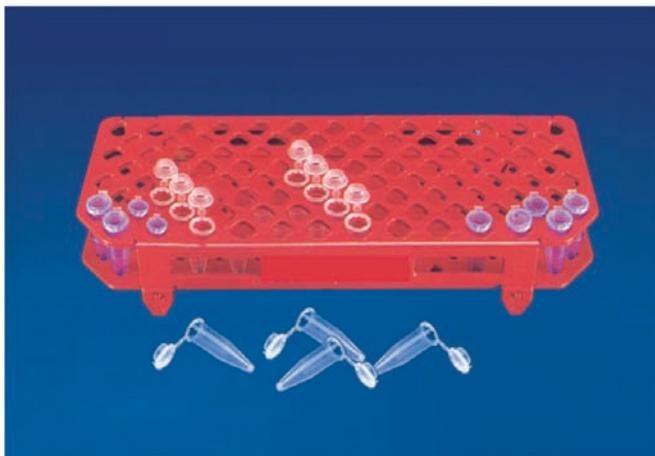
CAC10252 | Rack for 0.5ml & 1.5ml. MCTs.



RACK FOR MICRO CENTRIFUGE TUBE, PC

- Easy to hold ergonomic design
- Each hole has molded in numbers and letters for easy sample identification.
- Racks are stackable when empty or full .
- Compatible with both 1.5 ml and 2.0 ml micro centrifuge tube.
- Easy removal and insertion of tubes.
- Can be used in wide temperature range.
- Can be autoclaved.

CAC10254/1	1.5 and 2.0 ml, 24 Places, White
CAC10254/2	1.5 and 2.0 ml, 24 Places, Yellow
CAC10254/3	1.5 and 2.0 ml, 48 Places, White
CAC10254/4	1.5 and 2.0 ml, 48 Places, Yellow



RACK FOR MICRO CENTRIFUGE, FOLDING

These two-tier versatile racks, made of Polypropylene, are autoclavable & can be used dry, in water baths or in freezers, These racks are provided with alpha numeric index for easy sample identification. Racks are stackable even when loaded and have purpose designed label spaces on each side.

CAC10258/1	100 Places for 1.5 ml MCTs
------------	----------------------------



MCT BOX

MCT boxes are moulded in polycarbonate and are therefore strong as well as autoclavable. One size can hold 64 MCTs of 1.5ml & the other can hold 100 MCT's of 0.5ml. These boxes are designed to work at temperatures ranging from - 190°C to +121 °C The transparent cover provides a good view of the contents inside & is numbered for better inventory control.

CAC10265/1	Rack for 100 MCTs of 0.5ml
CAC10265/2	Rack for 64 MCTs of 1.5ml

URINE CONTAINER

These containers can be used for collecting a wide range of samples of sputum, urine etc. Moulded in polypropylene these container have excellent contact clarity and the cap has built in seal that makes it completely leakproof.



	Capacity, ml
CON10002/1	30
CON10002/2	60



CONTAINER, STOOL

In addition to the range of existing sample containers, this stool container has the unique feature of two piece molded cap-spoon combination. Capacity appx. 25 ml.

	Capacity, ml
CON10007	Appx. 25



MAGENTA BOX

Magenta Box is very often used in tissue culture & Agricultural research experiments. Main body of this box is made of tough & transparent Polycarbonate which provides excellent view of the contents inside while the cover is made of Polypropylene. This autoclavable box is square in shape giving itself a space saving feature.

CON10008



STORAGE BOXES

These Storage Boxes, made of Polypropylene, to be an excellent option for storage of different powdered reagents & other material in the laboratory. Square shape of these boxes help in saving shelf space. Available in three different sizes, these boxes have Polypropylene caps, are autoclavable, provide good chemical resistance & heavy duty service.

	Capacity, ml
CON10010/1	250
CON10010/2	500
CON10010/3	1000

SAMPLE CONTAINER (PRESS & FIT TYPE)

Made of Polypropylene, these disposable containers are used for collecting sample of sputum or urine etc. Graduated on the outer surface, these containers have cap that work in a press & fit manner & make these containers leakproof. These disposable containers are E.T.O. Sterilized.

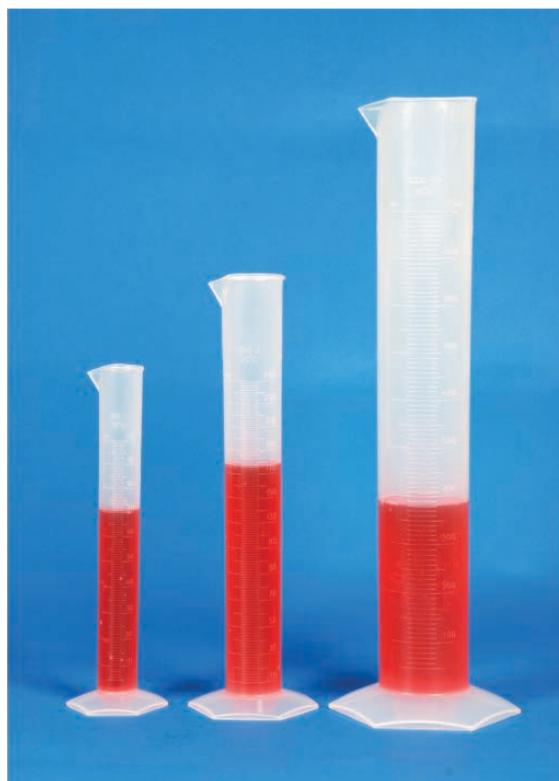


	Capacity, ml
CON10012/1	50
CON10012/2	25

MEDICINE CUP

These transparent polypropylene cups can be used to measure different volumes of medicines to be administered. The in built graduations make measuring very easy.

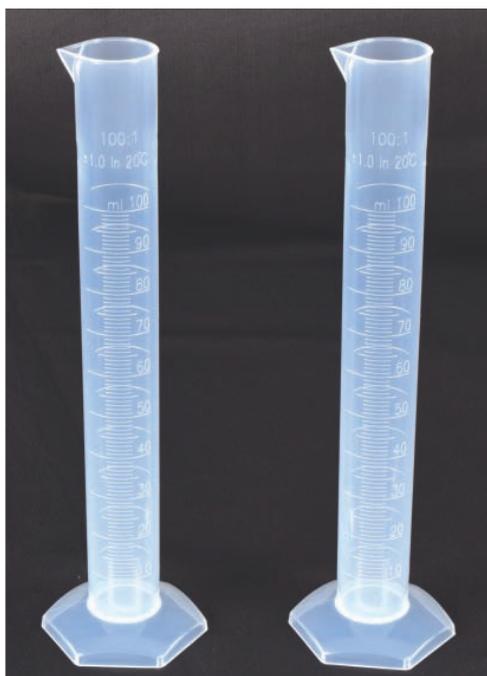
	Capacity, ml
CON10014/2	25



CYLINDER MEASURING, HEXAGONAL

The hexagonal base provides excellent stability to the cylinder where as the tapered spout works well while pouring any reagent. Polypropylene.

	Capacity, ml
CH10815/1	10
CH10815/2	25
CH10815/3	50
CH10815/5	100
CH10815/6	250
CH10815/9	500
CH10815/10	1000



MEASURING CYLINDER, HEXAGONAL, CLASS B

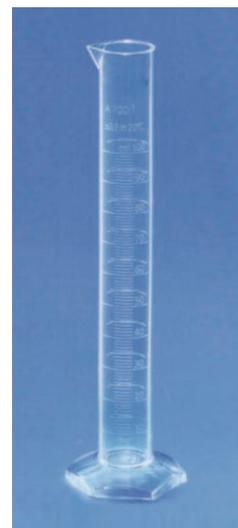
Moulded in polypropylene, Measuring Cylinders have superb contact clarity & very good chemical resistance. These are autoclavable to 121 °C for 20 minutes at 15 psi. Permanent raised graduations are moulded in for reproducibility. These cylinders are chemically non-absorbent. Hexagonal based provides added stability.

	Capacity, ml
CH10816/1	10
CH10816/2	25
CH10816/3	50
CH10816/5	100
CH10816/6	250
CH10816/9	500
CH10816/10	1000

CONICAL MEASURES

These conical measures are very good for measuring small quantities of reagents. Moulded in Polypropylene, these autoclavable measures have a hexagonal base which provides it excellent stability. The measures are clear, have good chemical resistance and have raised graduations for easy reading.

	Capacity, ml
CH10817/1	12
CH10817/2	25
CH10817/3	50
CH10817/7	125
CH10817/9	200



CYLINDER MEASURING , TPX CLASS "B"

- Transparent graduated cylinders have excellent value.
- Molded in large neat and easy to read graduations.
- Hexagonal shape gives stability to the base.
- Cylinders have generous pour spout for smooth flow of liquid during pouring.
- Can be autoclaved.
- Meets accuracy requirements of class B under DIN 1261/ ISO 6706

	Capacity, ml	Sub Division, ml	Error Limit, mm
CH10819/1	10	0.2	+ 0.2
CH10819/2	25	0.5	+ 0.5
CH10819/3	50	1	+ 1
CH10819/4	100	1	+ 1
CH10819/5	250	2	+ 2
CH10819/6	500	5	+ 5
CH10819/7	1000	10	+ 10
CH10819/8	2000	20	+ 20

CYLINDER MEASURING , TPX CLASS "A"

- These transparent graduated cylinders have excellent value.
- Molded in large neat and easy to read graduations
- Hexagonal shape gives stability to the base
- Cylinders have generous pour spout for smooth flow of liquid during pouring.
- Autoclaving at 121 °C does not affect accuracy.
- Meets accuracy requirements of class A under DIN 12681
- Supplied with conformity test certificate that indicates batch number and year of production that is also marked on the cylinder

	Capacity, ml	Sub Division, ml	Error Limit, mm
CH10821/1	10	0.2	+ 0.1
CH10821/2	25	0.5	+ 0.25
CH10821/3	50	1	+ 0.5
CH10821/4	100	1	+ 0.5
CH10821/5	250	2	+ 1
CH10821/6	500	5	+ 2.5
CH10821/7	1000	10	+ 5
CH10821/8	2000	20	+ 10



DESSICATOR (VACUUM)

These Desiccators are made of Polypropylene and Polycarbonate. These autoclavable vacuum desiccators can hold vacuum upto 740 mm of Hg for 24 hrs. Without any greasing. The top dome, moulded in rigid and transparent Polycarbonate, gives a crystal clear view of the desiccant placed inside. The knurled knob on the top provides easy handling of the dome. The lower part is made of Polypropylene. An internal groove is provided on the flange to hold a silicon rubber O-Ring. The Polypropylene stopcock is fitted with a self lubricating PTFE plug. This plug works three way i.e. vacuum creations, shutting off and vacuum releasing.

	Size, mm
CH10915/2	150
CH10915/4	200
CH10915/6	250
CH10915/7	300



DESSICATOR (PLAIN)

Plain Dessicator are physically the same as Vacuum Dessicator. Only difference is the absence of stop cock. Grease should be applied on the flanges to make it air tight.

	Size, mm
CH10919/1	150
CH10919/3	200
CH10919/5	250
CH10919/6	300



DESSICATOR (VACUUM) ALL CLEAR

These Vacuum Dessicator are provided with a transparent polycarbonate bottom that makes it more robust and provides excellent view of the dessicator. All the other features are same as PP/PC vacuum dessicator.

	Size, mm
CH10917/1	150
CH10917/2	200
CH10917/3	250
CH10917/4	300



PETRI DISH

Polypropylene, clear, unbreakable and autoclavable.

	Size, mm
CH10933/1	50
CH10933/3	75
CH10933/5	100
CH10933/6	125
CH10933/7	150



RACK FOR PETRI DISHES

Clear acrylic with polycarbonate posts. Useful during inoculation, incubation & storage. Visibility from all sides enables the culture to be seen and checked during incubation.

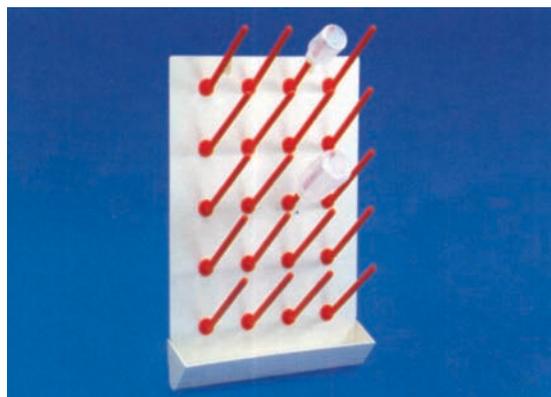
CH10935/1	Rack for 90 mm petri dishes
CH10935/3	Rack for 60 mm petri dishes



DRAINING BASKET

As the name suggests, this basket with wide net like structure on all sides prove really useful for draining different laboratory apparatus after washing them. Made of Polypropylene, this basket can be repeatedly autoclaved.

CH10936A	400 mm x 400 mm x 100 mm
----------	--------------------------



DRAINING RACK

Draining Rack provides an excellent option for post wash draining of tubes & bottles in the laboratory. The back plate has 20 holes into which pegs are tightened with the help of screw-nuts. Bottom of the rack is provided with a tray which collects all the waste water drained down which can further be collected in a container via drain tube. This rack does not rot, stain or rust.

CH10936B



FLASK SUPPORT, POLYPROPYLENE

For round bottom flasks upto 10 litres, autoclavable.
CH11076



FLASK, VOLUMETRIC, POLYPROPYLENE

Blown in polypropylene, are strong, unbreakable and have good contact clarity. These autoclavable flasks are provided with screw caps to prevent leakage.

	Capacity, ml
CH11078/1	25
CH11078/2	50
CH11078/3	100
CH11078/4	250
CH11078/5	500
CH11078/6	1000

FLASK, CONICAL, POLYPROPYLENE

These cone shaped flasks are rigid, translucent and autoclavable. The screw cap keeps the contents of the flask contamination free and makes the flask leakproof. Threads should be disengaged before autoclaving.



	Capacity ml
CH11080/1	100
CH11080/2	250
CH11080/3	500



POWDER FUNNELS

These polypropylene funnels are best suited for transfer ring powdered reagents. The unique feature of these funnels is its parallel stem that minimizes bridging of powder. These funnels are steam autoclavable at 121° C.

	Size, mm
CH11091/1	65
CH11091/2	80
CH11091/3	100
CH11091/4	150



FILTER FUNNEL, POLYTHENE

Plain, long stem.

	Size, mm
CH11087/7	100
CH11087/11	150



INDUSTRIAL FUNNELS

Industrial Funnel are designed in such a way that they make filling of carboys, drums and barrels very convenient. The handles of these funnels make their handling very easy.

	Size, mm
CH11093/1	200
CH11093/2	250

ANALYTICAL FUNNEL

Designed specifically for analytical chemistry, the body of the funnel is 60°. Moulded in PP, these funnels are provided with internal & external ribs to prevent air blockage.

	Size, mm
CH11089/10	35
CH11089/1	50
CH11089/2	62
CH11089/3	75
CH11089/4	100

FUNNEL, BUCHNER

Polypropylene, two piece funnels easy to clean and autoclavable.

	Size, mm
CH11112/1A	55
CH11112/1	70
CH11112/2	90
CH11112/3	110





SEPARATORY FUNNEL

Separatory funnel is made of polypropylene, giving it excellent contact clarity and strength. This pear shaped, autoclavable separating funnel has a leakproof threaded screw cap. The Polypropylene stopcock, fitted with a self lubricating PTFE plug, is push fitted to the stem of the separatory funnel.

	Capacity, ml
CH11125/1	100
CH11125/3	250
CH11125/5	500



FUNNEL HOLDER

Made of Polypropylene these corrosion free funnel holders can hold funnels with dia 3" to 6". The extra plate provided can be placed to hold funnels bearing dia 1" to 3". Two tapered wedges are provided to ensure firm grip on Rods having dia 1/2" or 3/8".

CH11126/1	Single
CH11126/2	Double



SEPARATORY FUNNEL HOLDER

This non-corrosive Separatory Funnel Holder, moulded in Polypropylene, has a front opening which provides clear view of the solution and allows unobstructed placement of separating funnels. Two tapered wedges are provided to ensure firm grip on Rods having dia 1/2" or 3/8".

CH11127

KIPP'S APPARATUS

Made of polyethylene, unbreakable, leakproof, detachable for easy cleaning.

	Capacity, ml
CH11134/2	250
CH11134/4	500
CH11134/6	1000



COPLIN JAR

Coplin Jar made of Polypropylene can hold 10 slides of the size 1"x3" back to back. The interior of the Coplin Jar is grooved in a way to hold slides in vertical position. Domed & shallow thread screw cap provides protection to the slides.

CH11193



STAINING BOX

Moulded in Polypropylene, this staining box helps in staining, fixing, destaining and handling fragile electrophoresis gels and membranes. Box as well as cover will resist temperatures from - 70°C to +70°C. The LDPE plug provides leakproof seal and allows easy liquid drainage.

CH11199 125 mm x 125 mm x 50 mm



PIPETTE PUMP

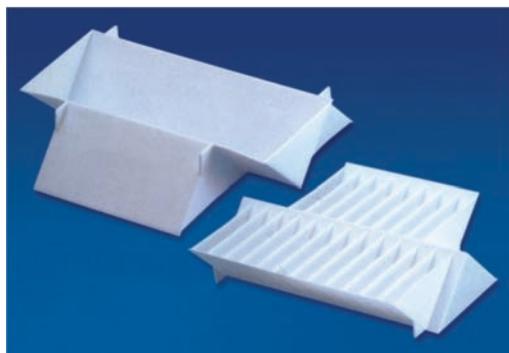
A fast release pipetting device for precise pipetting & zip quick emptying. The Knurled thumbwheel can be rotated to draw up or dispense liquids while the releaser may be pushed in for zip - quick emptying. The moulded chuck has a silicon rubber collet inside to hold various pipettes of standard sizes. It resists acids and alkalies and can be easily disassembled for thorough cleaning.

	Capacity, ml
CH11815/1	2
CH11815/4	10
CH11815/5	25



PIPETTE STAND

To Hold 12 Pipettes Horizontally.
CH11850



UNIVERSAL REAGENT RESERVOIR

This Universal Reagent Reservoir is a graduated single reagent reservoir with maximum volume of 50 ml, reservoir with 8 separate numbered 5 ml, reagent channels & a reservoir with 12 separate numbered 5 ml reagent channels. Made of polypropylene these reagent reservoirs are repeatedly autoclavable and can be used with all multi-channel pipettes.

	Capacity, ml
CH11833	50



REAGENT RESERVOIR

Moulded in Polypropylene, this autoclavable Reagent Reservoir is helpful for multi-channel pipettes to be used into microtiter plates.

	Capacity, ml
CH11834	75



PIPETTE STAND

To Hold 24 Pipette Vertically. Plastic.
CH11855/1



PIPETTE BOX

Made of polypropylene, this Pipette Box is designed in such a way that it can hold pipettes of different lengths. The top of the box screws on the bottom and the height can be adjusted by screwing or unscrewing the top.
CH11856



PIPETTE RACK STAND, ACRYLIC

Keep pipettors within easy reach inside this convenient rack. Holds five standard size pipettors.

	No. of Places	L x W x H, mm
CH11857	5	190 x 135 x 265



UTILITY TRAY

Adding to the already existing range of autoclavable laboratory trays, is the utility Tray and as the name suggests this Polypropylene Tray can be utilized for purposes ranging from drying glassware to sterilizing and to store and laboratory apparatus.

CH11864	375 mm x 350 mm x 130 mm
CH11864/1	360 mm x 310 mm x 130 mm

PIPETTE STAND (94 PIPETTES ROTARY)

Polypropylene holds a maximum of 94 pipettes and rotates on a central vertical axis for convenient selection of any particular pipette. The lower rotating disc has four concentric troughs with tapered sides and open bottoms which cradle the pipette tips protectively and permit water drops to run off. The upper disc has a grid pattern concentric with the bottom discs and keeps the pipettes vertical. Liquids draining off the pipettes are retained on the top of the stationary base by the outer ring. This stand can be easily disassembled & reassembled.

CH11860



CARRIER TRAYS

This autoclavable Polypropylene Tray has a unique feature i.e. its handle which proves really helpful in carrying reagents or laboratory apparatus from one place to another, single handedly.

CH11866	380 mm x 240 mm x 115 mm
---------	--------------------------



LABORATORY TRAY

Needless to say, Polypropylene laboratory Tray moulded in Polypropylene is a multipurpose tray that can be used for sterilizing, drying glassware porcelainware & other laboratory instruments. These steam autoclavable trays have tapered walls which prove good for nesting.

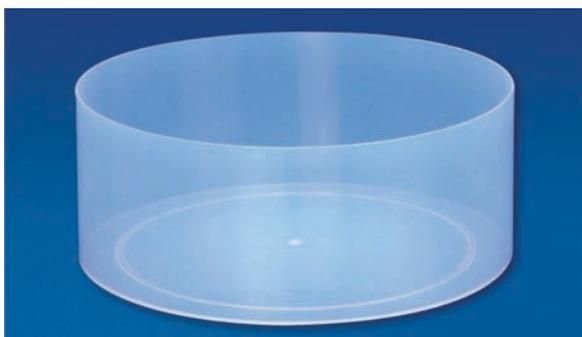
CH11862/1	450 mm x 350 mm x 75 mm
CH11862/3	375 mm x 300 mm x 75 mm
CH11862/5	350 mm x 275 mm x 75 mm



INSTRUMENT TRAY

This autoclavable trays have cover which fits into groove of trays to minimize spillage of material .Smaller size can be used to sterilize small instrument whereas the larger size allows pipettes to be fully immersed in disinfectant prior to sterilizing .

CH11868/1	220 mm x 150 mm x 70 mm
CH11868/2	450 mm x 150 mm x 70 mm



PNEUMATIC TROUGH

These Troughs, made of polypropylene, are autoclavable and are available in different sizes. These can be used for a wide range of purposes including storage, sterilizing & drying labware etc.

CH11869/1	Ø-180 x h- 60 mm
CH11869/2	Ø-200 x h- 100 mm
CH11869/3	Ø-250 x h- 100 mm



BENCH TOP BETA SHIELD, ACRYLIC

- Designed to be used in the laboratory during procedure that handle Emitting isotopes.
- Protect the lab worker and its angled top allows contents of the tube located behind the shield to be viewed from the top.
- The base of the Beta shield provides a large flat work surface and minimizes the risk of "hot spots" on the lab bench.

	Lx W x H (mm)
CH12022	45 x 30 x 30



SPATULA

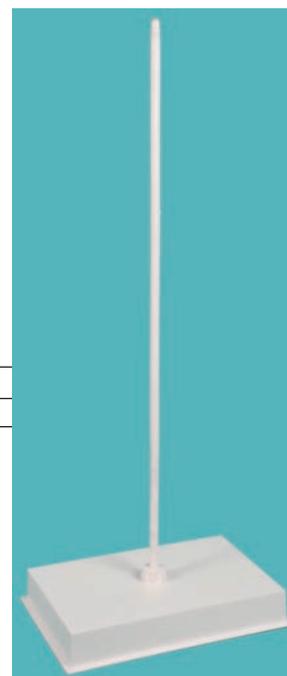
Moulded in Polypropylene, Spatula consists of a spoon on one side while the other end is a flat construction with a knife edge. This edge is helpful in breaking up crystals of different salts while the spoons used to draw salts from the containers.

	Size, mm
CH12210/1	150
CH12210/2	200

RETORT STAND

These non-corrosive, moulded retort stand provided excellent replacement for the metal ones. Even the metallic rod has a polypropylene covering making it non-corrosive. The rod measuring 12.5mm x 750mm can be screwed into the heavy base giving way to a perfectly stable retort stand.

CH12253/1	225 x 150 mm Side Hole
CH12253/2	300 x 200 mm Centre Hole
CH12253/3	300 x 200 mm Side Hole



STIRRER

Made of Polypropylene, these stirrers are very useful for stirring different solutions in the laboratory. These stirrers prove to be tough and long lasting.

CH12389/1	ø-10 mm x h-250 mm
CH12389/2	ø-6 mm x h-150 mm
CH12389/3	ø-7 mm x h-200 mm
CH12389/4	ø-7 mm x h-250 mm
CH12389/5	ø-7 mm x h-300 mm



POLICEMEN STIRRING RODS

This, in fact, is a multipurpose apparatus which works as a stirrer as well spatula. The fattened ends of this rod form two small spatulas.

CH12390	ø-6 mm x h-245 mm
---------	-------------------



L SHAPED SPREADER

This sterile, smooth spreader enables even spreading of liquid samples across the surface of a jar plate without grouping & cutting the medium.

CH12392

TEST TUBE WITH SCREW CAP

These Polypropylene tubes provide excellent option for RIA, coagulation & bacteriology etc. The cap is screwed on to the tube & hence this tube can be filled up to the brim.

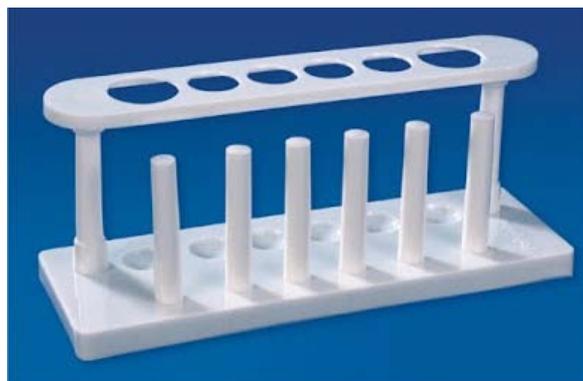
CH12666 | 16x100 mm Ext. Thread



UNIVERSAL MULTI RACK

Polypropylene, compatible with different sizes of tubes. Four sides of this rack can be used for tubes of $\varnothing 30$ mm, $\varnothing 20$ mm, $\varnothing 17$ mm & $\varnothing 12$ mm.

CH12750



TEST TUBE STAND

Polypropylene, autoclavable, available in two sizes, with drying pins.

	Size
CH12755/2	16 mm & 25 mm \varnothing Tubes
CH12755/3	25 mm \varnothing Tubes



TEST TUBE CAP

This transparent Polypropylene cap for test tubes proves to be an excellent protection to the contents to the tubes. The grooves inside the cap tighten the fitting on the tube while the outer grooves would hold identification labels. The built in seal ring would set in the tube making the combination a leakproof one.

	Size
CH12668	Cap for Test tube $\varnothing 25$ mm



TEST TUBE STAND (ROUND TEST ROUND)

Circular twelve places Polypropylene test tube stand has four 25 mm dia holes and eight 19 mm dia holes in its top plate. The base has matching hemispherical wells & 16 vertical pins for drying tubes surrounded by a trough to catch drippings. This autoclavable rack can be easily disassembled for cleaning purpose.

	Size
CH12760	19 mm & 25 mm \varnothing Tubes

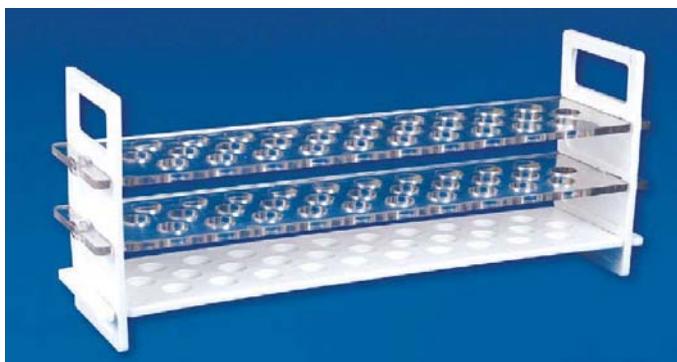


TEST TUBE STAND (3 TIER)

3 tier design provide clear view of the tube contents and convenient insertions and removal of tubes. These autoclavable racks can withstand sub-freezing temperatures.

Polypropylene

CH12765/1	13 mm x 31 Tubes
CH12765/2	16 mm x 31 Tubes
CH12765/3	20 mm x 20 Tubes
CH12765/4	25 mm x 12 Tubes
CH12765/5	25 mm x 18 Tubes
CH12765/6	32 mm x 12 Tubes
CH12765/8	25 mm x 36 Tubes
CH12765/9	13 mm x 18 Tubes
CH12765/10	15 mm x 18 Tubes
CH12765/12	18 mm x 12 Tubes
CH12765/13	13 mm x 62 Tubes
CH12765/14	16 mm x 62 Tubes
CH12765/15	20 mm x 40 Tubes
CH12765/17	13 mm x 48 Tubes
CH12765/19	13 mm x 72 Tubes



Polycarbonate

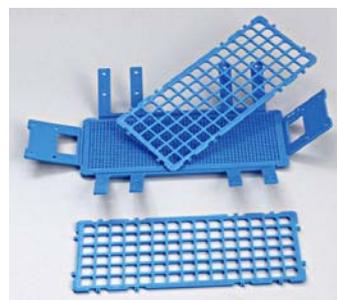
CH12770/1	13 mm x 31 Tubes
CH12770/2	16 mm x 31 Tubes
CH12770/3	20 mm x 20 Tubes
CH12770/4	25 mm x 12 Tubes
CH12770/8	13 mm x 62 Tubes
CH12770/12	16 mm x 62 Tubes
CH12770/15	20 mm x 40 Tubes
CH12770/16	25 mm x 24 Tubes
CH12770/17	25 mm x 18 Tubes
CH12770/18	25 mm x 36 Tubes
CH12770/19	32 mm x 12 Tubes



TEST TUBE PEG RACK

These racks can conveniently hold inverted tubes for drying purpose and minimize collection of air borne contaminants inside the tube. The rack can also be used to hold and dry electrophoresis and chromatography plates.

	Size
CH12772/1	13 mm x 90 Tubes
CH12772/2	16mm x 60 Tubes



TEST TUBE STAND (WIRE PATTERN)

An economical substitute for wire racks, here are these submersible, autoclavable racks which are stackable when empty. These are available in different colors and are made of a special blend of polypropylene that makes it sink in a water bath and maintain their stability even in agitated water. These space saving racks can easily be disassembled for cleaning purposes. The base is in the form of a grid with square openings and has fold up sides and end bars that lock into rack tops.

	Size
CH12775/1	13 mm x 90 Tubes
CH12775/2	16 mm x 60 Tubes
CH12775/6	20 mm x 40 Tubes
CH12775/7	25 mm x 24 Tubes
CH12775/8	30 mm x 21 Tubes



TEST TUBE RACK, 5 HOLES, LARGE

A brightly colored red and blue plastic test tube rack holds five large test tubes. The five holes are 32 mm diameter and it quickly disassembles for storage.

CH12776



TEST TUBE BASKETS

Test Tube Baskets are made of Polypropylene. These autoclavable, Unbreakable and non-corrosive Baskets are ideal for rinsing & draining glassware. These are also useful for storage of test tubes or culture tubes during sterilization or incubation.

CH12777/1	140 mm x 120 mm x 110 mm
CH12777/2	160 mm x 160 mm x 160 mm



NESTLER CYLINDER STAND

This stand as the name suggests is use for keeping nestler cylinders. Made of polypropylene, this stand is available in two sizes, one for 50ml nestler cylinder & other for 100 ml. Nestler cylinder.

	Capacity, ml
CH12799P/1	50
CH12799P/2	100

THERMOMETER RACK

Store your thermometers safely and prevent column separation. For 25 thermometers.

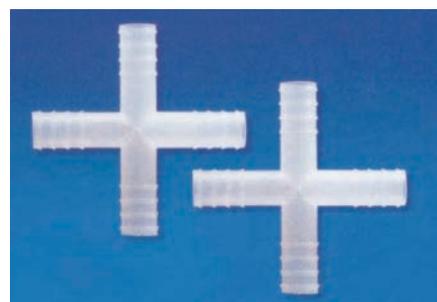
CH12920



TUBING CONNECTORS T & Y SHAPE

The crest & valley structure provided at all the ends of the connectors give excellent leakproof grip to the tube.

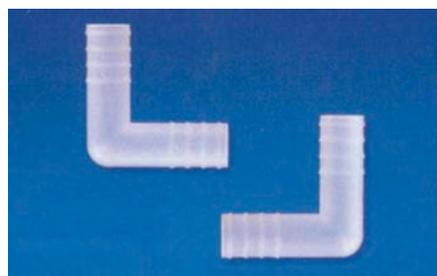
CH13075/1	T Connectors 6 mm
CH13075/3	T Connectors 8 mm
CH13075/5	T Connectors 10 mm
CH13075/7	Y Connectors 6 mm
CH13075/8	Y Connectors 8 mm
CH13075/9	Y Connectors 10 mm



CONNECTORS (CROSS)

Four way connectors prove to be an excellent option for achieving leakproof joints in tubing connections.

	Size, mm
CH13080/2	6
CH13080/4	8
CH13080/5	10



CONNECTORS (L SHAPED)

These L shaped connectors also add to the range of different connectors committed to provide excellent leak proof tube arrangements.

	Size, mm
CH13085/2	6
CH13085/3	8
CH13085/5	10

Abbreviations

PP	Polypropylene
PC	Polycarbonate
HDPE	High Density Polyethylene
LDPE	Low Density Polyethylene
PS	Polystyrene
ABS	Acrylo Nitrile Butadiene Styrene
PTFE	Poly Tetra Flouro Ethylene
PMMA	Poly Methyl Methacrylate
TPX	Poly Methyl Pentene

INDEX

A	
Aspirator Bottle, Polythene	1
Analytical Funnel	13
B	
Beakers Set, PC	2
Beakers Set, PP	1
Beakers, PC	2
Beakers, PP	1
Beakers, TPX	1
Beakers, With Handle	2
Bench Top Betashield, Acrylic	17
Burette, Acrylic	5
Burette, Clamp	6
C	
Carboy	5
Carboy With Stop Cock	5
Carrier Trays	16
Centrifuge Tube Box, PP	7
Centrifuge Tubes	6
Conical Measures	10
Connectors (Cross)	20
Connectors (L Shaped)	20
Coplin Jar	14
Cylinder Measuring	9, 10, 14
D	
Dessicator (Plain)	11
Dessicator (Vacuum) All Clear	11
Dessicator (Vacuum), PP & PC	11
Draining Basket	12
Draining Rack	12
Dropping, Bottle, T.K. Pattern	3
E	
Filter Funnel	13
Flask Support	12
Flask, Conical	13
Flask, Volumetric	12
Funnel Holder	14
Funnel, Buchner	13
G	
Gas Generator, Kipp's	14
H	
Heavy Duty Vacuum Bottle	4
I	
Industrial Funnels	13
Instrument Tray	16
L	
L Shaped Spreader	18
Laboratory Tray	16
Low Retention Tubes	7
M	
Magenta Box	9
MCT Box	8
MCT Float Rack	7
MCT Twin Rack	7
Medicine Cup	9
Micro Centrifuge Tubes	7
Micro Pestle	7
N	
Narrow Mouth Bottle	4
Nestler Cylinder Stand	20
O	
Oak Ridge Centrifuge Tubes	6
P	
Petri Dish	11
Pipette Box	15
Pipette Pump	15
Pipette Rack Stand, Acrylic	16
Pipette Stand	15, 16
Pneumatic Trough	17
Policemen Stirring Rods	17
Powder Funnels	13
R	
Rack For Micro Centrifuge	8
Rack For Petri Dishes	12
Reagent Bottle, Narrow Mouth	3
Reagent Bottle, Wide Mouth	3
Reagent Reservoir	15
Retort Stand	17
S	
Sample Container (Press & Fit Type)	9
Separatory Funnel	14
Separatory Funnel Holder	14
Spatula	17
Staining Box	14
Stirrer	17
Stool Container	8
Storage Boxes	9
T	
Test Tube Baskets	20
Test Tube Cap	18
Test Tube Peg Rack	19
Test Tube Rack, 5 Holes, Large	19
Test Tube Stand (3 Tier), PC	19
Test Tube Stand (3 Tier), PP	19
Test Tube Stand	18, 19
Test Tube With Screw Cap	18
Thermometer Rack	20
Tubing Connectors T & Y Shape	20
U	
Universal Multi Rack	18
Universal Reagent Reservoir	15
Urine Container	8
Utility Tray	16
W	
Wash Bottles, New Type	4
Wash Bottles	3
Wide Mouth Square Bottle	4

Physical Properties of Labware

Resin	Max use Temp°C	Bittleness Temp°C	Transparency	Sterilization						Flexibility	Water Absorption%
				Autoclaving	Gas	Dry Heat	Radiation	Disinfectant	Specific Gravity		
HDPE	120	-100	Translucent	No	Yes	No	Yes	Yes	0.95	Rigid	20.01
LDPE	80	-100	Translucent	No	Yes	No	Yes	Yes	0.92	Excel	<0.01
PC	135	-135	Clear	Yes+	Yes	No	No	Yes	1.20	Rigid	0.35
PP	135	0	Translucent	Yes	Yes	No	No	Yes	0.90	Rigid	<0.02
PS	90	20	Clear	No	Yes	No	Yes	Some	1.05	Rigid	0.05

Sterilization

- Autoclaving (121°C, 15 psig for 20 minutes) Clean and rinse item with distilled water before autoclaving. Certain chemicals which have no appreciable effect on resins at room temperature may cause deterioration at autoclaving temperatures.
- ALWAYS COMPLETELY DISENGAGE THREADS BEFORE AUTOCLAVING.
- Gas - Ethylene oxide formaldehyde.
- Dry heat - 160°C for 120 minutes
- Disinfectant - Benzalkonium chloride, formalin, ethanol, etc.
- Radiation - gamma irradiated at 2.5 Mard with unstabilized plastic. Sterilizing reduces mechanical strength. Do not use PC vessels for vacuum application if they have been Autoclaved

Chemical Resistance For Labware

CLASSES OF SUBSTANCES AT ROOM TEMPERATURE	HDPE	LDPE	PC	PP	PS
ACIDS, DILUTE OR WEAK	Green	Green	Green	Green	Green
ACIDS, STRONG AND CONCENTRATED	Green	Green	Red	Green	Orange
ALCOHOLS, ALIPHATIC	Green	Green	Blue	Green	Green
ALDEHYDES	Blue	Blue	Orange	Blue	Red
BASES	Green	Green	Red	Green	Green
ESTERS	Blue	Blue	Red	Blue	Red
HYDROCARBONS, ALIPHATIC	Blue	Orange	Orange	Blue	Red
HYDROCARBONS, AROMATIC	Blue	Orange	Red	Orange	Red
HYDROCARBONS, HALOGENATED	Orange	Red	Red	Orange	Red
KETONES	Blue	Blue	Red	Blue	Red
OXIDIZING AGENTS, STRONG	Orange	Orange	Red	Orange	Red

 30 Days of constant exposure cause no damage. Plastics may even tolerate for years.

 Little or no damage after 30 days of constant exposure to the reagents.

 Some effect after 7 days of constant exposure to the reagent like crazing, cracking, loss of strength or discoloration.

 Not recommended for continuous use. Immediate damage may occur.



Shiv Dial Sud & Sons

23, Industrial Estate, Ambala Cantt. 133 006 (INDIA)

Tel : +91-171-2699297, 2699537, 2699903

E-mail: info@shivsons.com

Website : www.shivsons.com