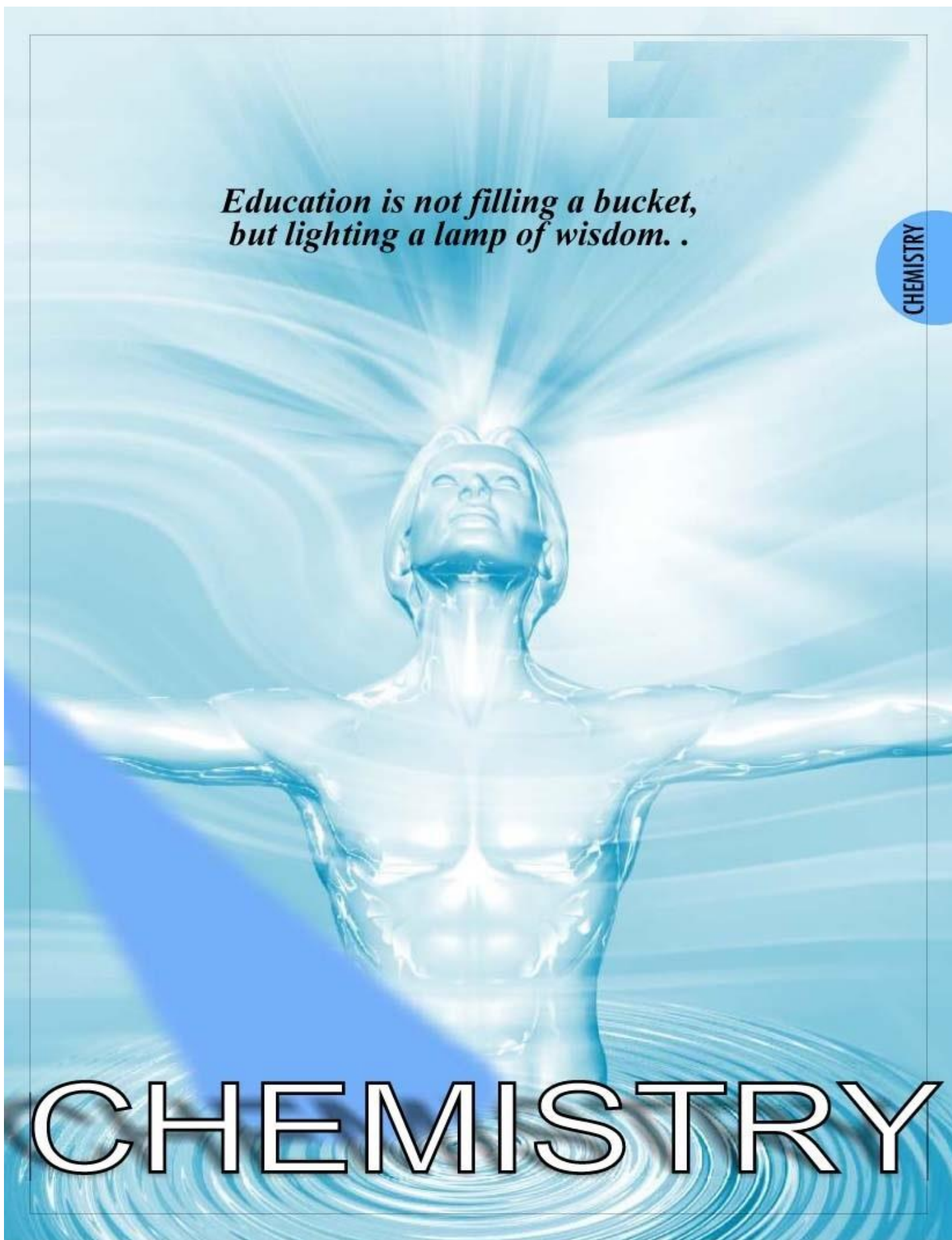


*Education is not filling a bucket,  
but lighting a lamp of wisdom. .*

CHEMISTRY

# CHEMISTRY



## CHEMISTRY ► PLASTIC LABWARE



### BEAKERS

Beakers, moulded in Polypropylene, have excellent clarity and very good chemical resistance. These autoclavable Beakers have prominently raised graduations on the outer surface. Pouring a solution becomes very convenient because of its tapered spout.

CAPACITY	50 ml.	100 ml.	150 ml.	250 ml.
CODE	20500	20501	20502	20503

CAPACITY	500 ml.	1000 ml.	2000 ml.
CODE	20504	20505	20505



### BURETTE

This Burette has a transparent Polymethyl Methacrylate 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 & bases except Hydrofluoric Acid & Ammonium Hydroxide. The pH range of 1-14 is ideal and can be used up to 5% wt/wt of acids or 30% bases.

CAPACITY	25 ml	50 ml
CODE	20520	20521



### BURETTE CLAMP

#### FISHER TYPE

These Clamps are moulded in Polypropylene making it completely corrosion-proof. The spring loaded jack in the middle provides a vice like grip to the Burette and prevents it from slipping. Two tapered wedges are provided to ensure firm grip on rods having dia 3/8" or 1/2".

BURETTE CLAMP	Single	Double
CODE	20530	20531



### BOTTLES DROPPING

Blown in Low Density Polyethylene, Dropping Bottles dispense small uniform drops of liquids when pressed lightly.

CAPACITY	60 ml.	125 ml.
CODE	20540	20541



## CHEMISTRY ► PLASTIC LABWARE

### BOTTLES REAGENT

#### (NARROW MOUTH)

These Narrow Mouth Reagent Bottles are available in Polypropylene as well as Polyethylene. The PP bottles are rigid, translucent and have excellent contact clarity. These bottles can be autoclaved filled as well as empty. On the other hand, the Polyethylene bottles too have excellent strength and are unbreakable. The Polypropylene Cap has a built in seal ring to make these bottles leakproof.

CAPACITY	60 ml.	125 ml.	250 ml.	500 ml.	1000 ml.
CODE	20550	20551	20552	20553	20554



#### (WIDE MOUTH)

These Wide Mouth Reagent Bottles are available in Polypropylene as well as Polyethylene. The PP bottles are rigid, translucent and have excellent contact clarity. These bottles can be autoclaved filled as well as empty. On the other hand, the Polyethylene bottles too have excellent strength and are unbreakable. The Polypropylene Cap has a built in seal ring to make these bottles leakproof.

CAPACITY	60 ml.	125 ml.	250 ml.	500 ml.	1000 ml.
CODE	20560	20561	20562	20563	20564



### WASH BOTTLES

Wash Bottles are made of Low Density Polyethylene which gives these bottles a translucent & unbreakable character. Solutions can be poured easily by squeezing the bottle lightly. The cap is fitted with a flexible polyethylene delivery tube which can be aimed wherever required.

CAPACITY	125 ml.	250 ml.	500 ml.	1000 ml.
CODE	20570	20571	20572	20573



#### (New Type)

These Bottles are also made of Low Density Polyethylene and are therefore translucent & unbreakable. The distinguishing feature that these bottles contain is the 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	250 ml.	500 ml.	1000 ml.
CODE	20580	20581	20582



## CHEMISTRY ► PLASTIC LABWARE



### ASPIRATOR BOTTLES

Aspirator Bottles are made of Polypropylene and are therefore much lighter than glass. These are autoclavable, durable & dependable. The leakproof spigot screwed to the bottle body requires only a half turn to open or close. These bottles are used for storing or dispensing distilled water & other laboratory solutions. Threads should be totally disengaged before autoclaving.

CAPACITY	5 ltr.	10 ltr	20 ltr
CODE	20590	20591	20592



Rigid polythene, medium wall , screw capped with stopcock.

Capacity in Litres	2.5	5	10	20
Code	20600	20601	20602	20603



### SYPHON

These self priming Syphons made of Low Density Polyethylene can be used for pouring liquids from large containers to small ones without actually lifting them. Insert the open end of the tube in the liquid, close the stop cock and pump the bulb. As soon as the liquid enters the bulb, flow is automatically regulated. Stop pumping further. Liquids can now be dispensed by opening the stopcock.

PARTICULARS	CODE
6 mm	20610



### SYPHON AUTOMATIC

Strong bellows fine leakproof stopcock to dispense liquid, avoids spillage and burning problem. Acid- alkali proof.

Size	Medium	Large
Code	20605	20606



### FLASK CONICAL

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

CAPACITY	100 ml	250 ml	500 ml
CODE	20620	20621	20622



## CHEMISTRY ► PLASTIC LABWARE

### FLASK VOLUMETRIC

Volumetric Flasks, blown in Polypropylene, are strong, unbreakable and have good contact clarity. These autoclavable flasks are provided with screw caps to prevent leakage.

CAPACITY	25 ml	50 ml.	100 ml.	250 ml.	500 ml.	1000 ml.
CODE	20630	20631	20632	20633	20634	20635



### FLASK STAND

Code No. : 20650

Moulded in Polypropylene, this Flask Stand gives a stair-like top view. Every step provides excellent support to the round bottom flask at every point of Contact, This Flask Stand can hold round bottom Flasks up to 10 Ltr, capacity, This Stackable Flask Stand can also be steam autoclaved.



### FUNNELS

These funnels have smooth walls, 60° cone angle and external ribs to prevent air lock. Moulded in Polypropylene, these clear funnels can also be steam autoclaved. Available in long/short form.

CAPACITY	50 mm.	62 mm.	75 mm.	100 mm.	150 mm.
LONG STEM	20660	20661	20662	20663	20664
SHORT STEM	20670	20671	20672	20673	20674



### BUCHNER FUNNEL

Moulded in Polypropylene, these two piece funnels are light weight, easy to clean & autoclavable. The top portion can be snap fitted with the lower one forming a vacuum seal which does not require greasing. The base of the top portion has a perforated filter plate.

SIZE	70 mm	110 mm
CODE	20680	20681



## CHEMISTRY ► PLASTIC LABWARE



### SEPERATORY FUNNEL

Seperatory 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 seperatory funnel.

CAPACITY	100 ml	250 ml.	500 ml.
CODE	20700	20701	20702



### SEPERATORY FUNNEL HOLDER

Code No. : 20710

This non-corrosive Seperatory 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".



### FUNNEL HOLDER

Code No. : 20720

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".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".



### DESICCATOR (PLAIN)

Plain Desiccators are physically the same as Vaccum Desiccator. Only difference is the absence of stop cock. Grease should be applied on the flanges to make it air tight.  
Material : Polypropylene/Polycarbonate

SIZE	150 mm	200 mm	250 mm
CODE	20730	20731	20732



## CHEMISTRY ► PLASTIC LABWARE

### DESICCATOR (VACCUM)

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 a-Ring.

The Polypropylene stopcock is fitted with a self lubricating PTFE plug. This plug works three way i.e. vacuum creation, shutting off & vacuum releasing.

Each Desiccator is provided with a thick perforated Polypropylene disc with a big hole in the centre for easy lifting. The tiny holes in the disc provide air troughs & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles.



SIZE	150 mm.	200 mm.	250 mm.
CODE	20740	20741	20742

### MEASURING CYLINDERS

Measuring Cylinders, moulded in Polypropylene, are single piece cylinders. These autoclavable cylinders have raised prominent graduations for easy reading and have excellent contact clarity. The broad base provides good stability.

CAPACITY	10 ml.	25 ml.	50 ml.	100 ml.
CODE	20750	20751	20752	20753

CAPACITY	250 ml.	500 ml.	1000 ml.	2000 ml.
CODE	20754	20755	20756	20757



### 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	12 ml.	25 ml.	50 ml.	125 ml.	200 ml.
CODE	20770	20771	20772	20773	20774



### MEASURING JUGS

These handy Jugs, moulded in Polypropylene, are clear, autoclavable and have good chemical resistance. These jugs are provided with a handle for easy & convenient lifting and have raised graduations for easy reading.

CAPACITY	250 ml.	500 ml.	1000 ml.	2000 ml.
CODE	20780	20781	20782	20783



## CHEMISTRY ► PLASTIC LABWARE



### STIRRER

Code No. : 20790

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

PARTICULARS	
Ø-10 mm.	x h-250 mm.



### PETRI DISH

These Petri Dishes moulded in Polypropylene are clear & unbreakable. The moulding material being Polypropylene, these can be repeatedly autoclaved. The ridges on the inner side of the cap prevent the base from sticking to the cap.

SIZE	50 mm	75 mm	100 mm	125 mm	150 mm
CODE	20800	20801	20802	20803	20804



### PETRI DISH DISPOSABLE

These transparent, ready to use, disposable Petri Dishes are made of optically clear, non-toxic, Polystyrene. These Petri Dishes packed individually in polyethylene bags are sterilized by radiation/E. T. O.

SIZE	90 mm, E.T.O. Stz.	90 mm, Radiation Stz.	60 mm, Radiation Stz.	35 mm, Radiation Stz.
CODE	20810	20811	20812	20813



### CENTRIFUGE TUBE

#### CONICAL BOTTOM

Centrifuge tubes with conical bottom are available in two sizes i.e. 15 ml. & 50 ml. Moulded in Polypropylene, these tubes are clear, strong & safe. These autoclavable tubes are provided with printed graduations on the outer surface. The built in seal ring in the cap makes these tubes absolutely leakproof. These tubes can withstand forces upto 7500xG & 12000xG for 15 ml. & 50 ml. tubes respectively. These tubes are available sterilized as well as non-sterilized.

SIZE	15 ml	50 ml	15 ml Sterile	50 ml Sterile
CODE	20820	20821	20822	20823



#### ROUND BOTTOM

Centrifuge Tubes with round bottom are moulded in Polypropylene & Polycarbonate. These 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.

16 ml Centrifuge tube		50 ml Centrifuge tube	
PP.	PC.	PP.	PC.
20830	20832	20831	20833
Cap for 16 ml tube		Cap for 50 ml tube	
20834		20835	



## CHEMISTRY ► PLASTIC LABWARE

### CENTRIFUGE TUBES

#### OAK RIDGE

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.

SIZE	30 ml.	50 ml.
CODE	20840	20841



#### MICRO

These Micro Centrifuge Tubes, moulded in Polypropylene, have built in plugs which snap fit and make these tubes leakproof. These tubes can withstand high forces of an ultra centrifuge and can be used for transmitting samples for micro analysis.

SIZE	0.5 ml.	1.5 ml.
CODE	20850	20851



### STOP COCKS

These polypropylene Stop Cocks are fitted with a PTFE plug & have serrated tubulations that accept from 6 mm to 10 mm tubing. These Stop Cocks are absolutely leakproof and are available-in two different options

STOP COCK	2 Way	3 Way
CODE	20860	20861



### MCT TWIN RACK

Code No. : 20870

This polypropylene Twin Purpose Rack for both 0.5 ml. & 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.



### PCR TUBE RACK

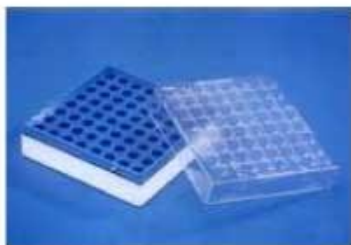
This rack, as the name suggests, is used for keeping PCR Tubes. Top & base of this rack are made of tough & transparent polycarbonate while the middle portion is made of polypropylene. The tube holding spaces are uniformly placed so as to facilitate the use of multipipettes. A no. of racks can be stacked together to save shelf space.

Rack for 96 PCR Tubes of 0.2 ml

Code No. : 20880



## CHEMISTRY ► PLASTIC LABWARE



### MCT BOX

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

SIZE	100 MCTs of 0.5 ml.	64 MCTs of 0.5 ml.
CODE	20890	20891



### SAMPLE CONTAINER (SCREW TYPE)

Sample Containers are made of Polypropylene. These thin walled, graduated, disposable containers are easily screw capped with less than  $1/4$ " of a rotation. As one screw caps the container, the top of it sets in a domed ring in the cap making it completely leakproof This is perhaps the ideal most option available for carrying samples from one place to another safe & sound.

SIZE	100 ml
CODE	20900



### STORAGE VIALS

These polypropylene vials add to the existing range of storage vials. Available in 5 ml. & 10 ml. capacities, these vials have polypropylene cap with built in seal ring making it a leakproof vial. Just like others storage vials these vials are also used for the storage of biological material, animal & human cells etc.

SIZE	10 ml.	5 ml.
CODE	20910	20911



### SCINTILLATION VIAL

These unbreakable vials, moulded in Polyethylene, are fitted with leakproof screw caps. These vials can be used with standard counting equipment for liquid scintillation system and are excellent for low activity count.

SIZE	8 ml.	20 ml.
CODE	20920	20921



### RACK FOR SCINTILLATION VIAL

These Racks for Scintillation Vials, moulded in Polypropylene, are autoclavable & corrosion resistant. There is an individual rack for both 8 ml. & 20 ml. vials. These rugged & stable racks can hold scintillation vials for convenient storage, handling & sample preparations.

PARTICULARS	90 vials of 8 ml.	50 vials of 20 ml.
CODE	20930	20931



## CHEMISTRY ► PLASTIC LABWARE

### RIA VIAL

These Polypropylene/Polystyrene tubes are generally used in RIA, Coagulation & Bacteriology. The Polypropylene tubes are clear and can withstand 3000 RCF during Centrifugation while the transparent Polystyrene tubes can withstand 1400 RCF. The PP tubes can accept common acids, alkalis & solvents at room temperature while the PS tubes can accept mild bases, weak acids but not organic solvents.

SIZE	12 x 75 mm /PS	12 x 75 mm /PP	Cap for 12 mm RIA Tube
CODE	20940	20941	20942



### 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.

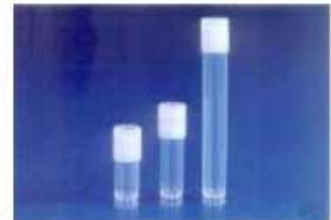
PARTICULARS	Cap for Test Tube Dia. 25 mm
CODE	20950



### STORAGE VIAL

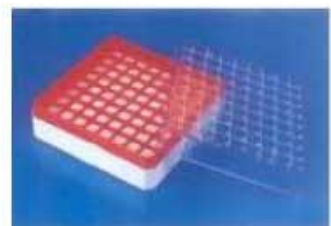
As the name suggests, these Polypropylene/Polyethylene vials are commonly used for storage of biological material, human & animal cells at temperature as low as  $-190^{\circ}\text{C}$ . The Cap is provided with a built in seal ring making the vial leakproof. The base of the vial has longitudinal grooves which give it a non-twisting character when placed in a vial.

SIZE	1.0 ml.	2.0 ml.	5.0 ml.
CODE	20960	20961	20962



### CRYO BOX

Cryo Boxes are moulded in Polycarbonate making it extra strong and autoclavable. These can accommodate Cryo Vials of up to 4.5 ml. capacity and are designed to be used at temperatures ranging from  $-190^{\circ}\text{C}$  to  $+121^{\circ}\text{C}$ . The transparent cover of the box gives a good view of the contents inside and is numbered for better inventory control.



PARTICULARS	81 Places for 1 ml. or 1.8 ml Cryo Vials	81 Places for 4.5 ml. Cryo Vials	100 Places for 1 ml. Or 1.8 ml. Cryo Vials
CODE	20970	20971	20972

## CHEMISTRY ► PLASTIC LABWARE

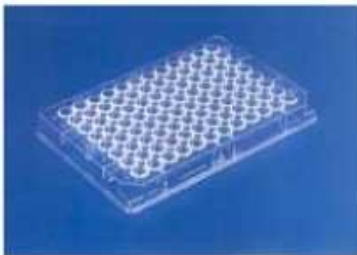
### MICRO TIP BOX



These unique boxes are moulded in Polypropylene and are therefore autoclavable. The Box itself is clear in providing an excellent view of the tips inside while a table like structure is provided inside to hold the tips. The tip holding spaces are uniformly placed to facilitate the use of multi channel pipettes. The cover is joined to the base through ball catcher hinges and provides excellent protection to the tips.

MICRO TIP BOX	For 96 Micro Tips of 2-200 µl	For 100 Micro Tips of 200-1000µl
CODE	20980	20981

### IMMUNOLOGY PLATES



ELISA-ASSAY plates are made of optically clear, non-toxic Polystyrene. These plates with 96 U Bottom or flat bottom wells bear alpha-numeric index. Uniform placement of all the wells facilitate use of multi channel pipettes. These plates packed individually are available non-sterile as well as radiation sterilized.

	STERILE		NON STERILE	
	Elisa Plate	Assay Plate	Elisa Plate	Assay Plate
Flat Bottom	20994	20996	20990	20992
U Bottom	20995	20997	20991	20993

### CRYO VIAL



Cryo vials are normally used for storage of Biological material, human & animal cells at temperature as low as  $-190^{\circ}\text{C}$ . These Polypropylene / Polyethylene sterilized tubes are provided with white, prominent graduations and a long marking area for sample identification. The cap of these vials provided with a seal ring inside to make it completely leakproof. The longitudinal grooves in the base give a non-twisting feature to these vials when placed in a cryo rack.

CAPACITY	1.0 ml.	1.8 ml.	4.5 ml.
CODE	21000	21001	21002

### CRYO CODERS

Code No. : 21010

These Polypropylene Coders available in different colours can easily fit into the cap of cryo vials for colour identification of different samples.



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### CRYO RACK

Code No. :21020

Cryo Rack is moulded in Polycarbonate making it tough, durable & autoclavable. This handy rack can hold 50 vials at a time. The unique feature of this rack is that vials can be unscrewed without actually picking them up as the vial will lock in very well and hence will not twist. This rack is provided with four anti skid rubbers & each well is identified with an alpha-numeric index.



### SLIDE BOX

These Polystyrene Slide Boxes are durable, compact & provide utmost protection to 1" x3" slides. Heavy walls will not warp, splinter or crack. Boxes are unaffected by humidity and are thoroughly insect proof. Base of the slide Box has a numbered index for easy slide Identification. Slide box with Aluminium and wooden groves are also available which are mentioned in Biology pg no. 127

SLIDE BOX	25 Slides	50 Slides	100 Slides
CODE	21030	21031	21032



### FLOAT RACK

This Float Rack moulded 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.

CAPACITY	CODE
16 MCT's of 1.5 ml	21040



### SLIDE MAILER

Slide Mailers present the best option to carry prepared slides from one place to another. Moulded in Polypropylene, these Slide Mailers are available in two sizes i.e. 2 slides & 5 slides.

NO.OF SLIDES	2 Slides	5 Slides
CODE	21050	21051



### STORAGE BOXES

These Storage Boxes, made of polypropylene, prove 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 two different sizes, these boxes have polypropylene caps, are autoclavable, provide good chemical resistance & heavy duty service.

CAPACITY	500 ml.	1000 ml.
CODE	21060	21061



## CHEMISTRY ► PLASTIC LABWARE



### MAGENTA BOX

Code No. : 21070

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.



### SIMPLE CELL POT

Code No. :21080

Simple Cell Pot, as the name suggests, is used for making Simple Cells & Volta meters etc. Moulded in Polypropylene, this Pot has very good contact clarity and excellent chemical resistance. Being in Polypropylene, this Pot is much durable than the one used conventionally.



### LECLANCHE CELL POT

Code No. :21090

Blown in Polypropylene, this Pot is used for making Leclanche Cell. This Pot too has very good contact clarity & excellent chemical resistance.



### SAMPLE CONTAINER

(PRESS & FIT TYPE)

Made of polypropylene, these disposable Containers are used for collecting samples 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	50 ml
CODE	21100



### 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.

SIZES	Ø - 180 x h-60 mm	Ø - 200 x h-100 mm	Ø - 250 x h-100 mm
CODE	21110	21111	21112

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## CHEMISTRY ► PLASTIC LABWARE

### PLANTATION POTS

Plantation Pots, moulded in polypropylene, are available in three different sizes. These pots have a downward extended rim which provide convenient lifting even if the pot is filled. The bottom of the pot is provided with holes for drain purpose.

SIZE	100 mm.	150 mm.	200 mm.
CODE	21120	21121	21122



### LABORATORY TRAY

Code No. : 21130

Needless to say, Laboratory Tray moulded in polypropylene 450 x 350 x 75 mm 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.



### 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.

DIMENSIONS	140 x 120 x 110 mm	160 x 160 x 160 mm	400 x 400 x 100 mm
CODE	21150	21151	21152



### COPLIN JAR

Code No. : 21160

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 erect position. Domed & shallow thread screw cap provides protection to the slides.



## CHEMISTRY ► PLASTIC LABWARE

### TEST TUBE STAND

#### TEST TUBE STAND WIRE PATTERN



An economical substitute for wire racks, these submersible, autoclavable racks which are stackable when empty. These are available in different colours 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	13 mm	16 mm	20 mm	25 mm
No. of Tubes	90	60	40	24
CODE	21140	21141	21142	21143



### TEST TUBE STAND (3 TIER)

#### OPAQUE PLATES

These Polypropylene ingenious racks with a 3-tier design provide clear view of the tube contents & convenient insertion & removal of tubes. The PC rack has opaque upper & middle plates. These autoclavable Racks can withstand sub-freezing temperatures.

SIZE	13 mm		15 mm		16 mm		18 mm		20 mm		25 mm		32 mm	
No. of holes	31 holes	21170	18 holes	21175	31 holes	21178	12 holes	21180	20 holes	21182	12 holes	21185	12 holes	21189
	18 holes	21171	x	x	62 holes	21179	x	x	40 holes	21183	18 holes	21186	x	x
	62 holes	21172	x	x	x	x	x	x	x	x	36 holes	21187	x	x



#### TRANSPARENT PLATES

These Polypropylene ingenious racks with a 3-tier design provide clear view of the tube contents & convenient insertion & removal of tubes. The PC rack has transparent upper & middle plates where as in PP racks, every part is coloured & opaque. These autoclavable Racks can withstand sub-freezing temperatures.

SIZE	13 mm		16 mm		20 mm		25 mm		32 mm	
No. of holes	31 holes	21190	31 holes	21193	20 holes	21197	12 holes	21201	12 holes	21207
	62 holes	21191	62 holes	21194	40 holes	21198	24 holes	21202	x	x
	x	x	x	x	x	x	18 holes	21203	x	x
	x	x	x	x	x	x	36 holes	21204	x	x



## TEST TUBE STAND

This autoclavable Stand made of Polypropylene is perhaps the most commonly used Test Tube Stand in various laboratories. For better visibility, this 6 place rack is end supported by 2 columns. The top plate has 2 holes for holding 25 mm dia test tubes, four holes to hold 16 mm dia tubes where as the base has corresponding hemispherical wells. It also has six vertical pins for drying tubes.

Another option available in this section is a test tube stand in which all the holes in the top plates can hold 25 mm dia tubes.

SIZE OF TEST TUBE	16 mm. & 25 mm. Ø Tubes	25 mm. Ø Tubes
CODE	21210	21211



## ROUND

Code No. : 21215

A handy, little, space saver, this circular twelve place Polypropylene Test Tube Stand has four 25 mm dia holes & 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.



## RACK FOR MICRO CENTRIFUGE TUBE

Moulded in Polycarbonate, this autoclavable rack is made for holding twenty four 1.5 ml. micro centrifuge tubes. This rack has a unique stacking feature which prevents movement in any direction. The holes are numbered & lettered for easy identification,

NO.OF TUBES	24 Tubes	48 Tubes
CODE	21220	21221



## PIPETTE PUMP

Presents 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 & alkalis and can be easily disassembled for thorough cleaning.

Material : Acrylonitrile Butadiene Styrene

CAPACITY	2 ml.	10 ml.	25 ml.
CODE	21230	21231	21232



## CHEMISTRY ► PLASTIC LABWARE

### PIPETTE STAND

#### VERTICAL

Code No. : 21240



This is a stable, non-corrosive, detachable Stand which can hold 28 pipettes with maximum dia 14 mm. The heavy base measures 225 mm in diameter and a Polypropylene coated square rod measuring 375 mm in length is screwed into the base. The top disc that can be fixed on the rod has holes for holding pipettes while the lower one has pilot holes where the pipette tips rest and liquids drain down to the base. These discs can be adjusted on the rod according to the length of the pipette. The arrows provided on the discs should be kept parallel to ensure that corresponding holes are being centered.

#### 94 PIPETTES-ROTARY

Code No. : 21241



Moulded in Polypropylene, this unique Stand 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 disc 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.

#### HORIZONTAL

Code No. : 21242



This detachable Stand can hold 12 pipettes, 6 on each side, in a horizontal position. Moulded in Polypropylene, this autoclavable stand has two sides which are attached to each other with three metallic rods coated with Polypropylene. This stand can be easily disassembled for space saving storage.

### RACK FOR PETRI DISHES

Code No. : 21250



This Rack is a clear acrylic construction with white Polycarbonate Posts. It has a capacity to hold 60 petri dishes of 90 mm size. This rack is very useful during inoculation, incubation & Storage. Visibility from all sides enables the culture to be seen & checked during incubation.

CHEMISTRY



## CHEMISTRY ► PLASTIC LABWARE

### RETORT STAND

These Polystyrene/Polypropylene non-corrosive, moulded Retort Stands provide excellent replacement for the metal ones. Even the metallic rod has a polypropylene covering making it non-corrosive. The rod measuring 12.5 mm x 750 mm can be screwed into the heavy base giving way to a perfectly stable Retort Stand.



DIMENSION	225 x 150 mm - Side Hole	300 x 200 mm - Centre Hole	300 x 200 mm - Side Hole
CODE	21260	21261	21262

### 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 spoon is used to draw salts from the containers.



SIZE	150 mm	200 mm
CODE	21270	21271

### SAFETY GOGGLES

Code No. : 21280

One piece plastic, protects eyes. With adjustable Elastic band..



### CONNECTORS

Moulded in Polyethylene, these Connectors are basically pipe-like structures in T&Y shapes with ringed edges. These are used for connecting tubes to each other. The ringed edges prevent leakage & slippage.

CONNECTORS	T - Connector	Y - Connector
CODE	21290	21291



## CHEMISTRY ► GLASS LAB WARES

### BURETTE

#### WITH MOHR CLIP

This Burette is made of neutral glass with Mohr clip, glass jet and rubber tubing. Each Burette is individually calibrated to give maximum accuracy. School quality.

CAPACITY	25 x 0.1 ml	50 x 0.1 ml
CODE	21500	21501

#### WITH STOPCOCKS

This Burette is made of borosilicate glass with single bore Rotaflo stopcock. Each Burette is individually calibrated to give maximum accuracy.

Capacity : 50 x 0.1 ml Code : 21505

### BEAKERS

Beakers, moulded in borosilicate glass, have excellent clarity and very good chemical resistance. These Beakers have prominently raised graduations on the outer surface. Pouring a solution becomes very convenient because of its tapered spout.

CAPACITY	50 ml.	100 ml.	250 ml.	500 ml.	1000 ml.	2000 ml.
CODE	21510	21511	21512	21513	21514	21515

### BOTTLES

#### DROPPING

T.K. Pattern , clear glass bottle, with ground glass grip stopper and spout.

CAPACITY	15 ml	30 ml	60 ml	125 ml
CODE	21530	21531	21532	21533

#### BIJOU

Code No. : 21540

#### McCARTNEY

Code No. : 21545

Media vaccine , narrow mouth with aluminium screw cap and rubber liner. Capacity 28 ml.

CHEMISTRY



## CHEMISTRY ► GLASS LAB WARES

### BOTTLES REAGENT

Glass, wide neck with flat glass dust proof stopper.

CAPACITY	60 ml.	125 ml.	250 ml.	500 ml.	1000 ml.
CODE	21550	21551	21552	21553	21554



### GAS WASH BOTTLE WOUFFF

Made of Glass with 2 necks

Capacity	250 ml	500 ml
Code	21560	21561



### GAS JAR CYLINDRICAL

Height in cm	15	20	25	30	20	25	30	15	20	25
Dia in cm	5	5	5	5	7.5	7.5	7.5	10	10	10
Code	21570	21571	21572	21573	21574	21575	21576	21577	21578	21579



### PETRI DISH

These Petri Dishes are clear & made of glass. The ridges on the inner side of the cap prevent the base from sticking to the cap. Also available in Polypropylene as in page 81.

SIZE	50 ml.	75 ml.	100 ml.	125 ml.	150 ml.
CODE	21580	21581	21582	21583	21584



### PIPETTES

Made of borosilicate glass, with permanent stained graduation. colour coded. Zero at top.

Capacity in ml	1	2	5	10	25
Code	21590	21591	21592	21593	21594

Also available in bulb form with single graduation on upper stem ,permanent graduation.

Capacity in ml	2	5	10	15	20	25	50	100
Code	21600	21601	21602	21603	21604	21605	21606	21607



## CHEMISTRY ► GLASS LAB WARES



### FLASK BOILING

Long neck , flat bottom made of borosilicate glass .  
Long neck , round bottom made of borosilicate glass .  
Also available in soda glass.

Sizes	Round bottom		Flat bottom	
	Borosilicate glass	Soda glass	Borosilicate glass	Soda glass
100 ml	21610	21615	21620	21625
150 ml	21611	21616	21621	21626
250 ml	21612	21617	21622	21627
500 ml	21613	21618	21623	21628
1000 ml	21614	21619	21624	21629



### FLASK CONICAL

Erlenmeyer, wide mouth, made of borosilicate glass .  
Conical flask with graduation is also available

Sizes	100 ml	150 ml	250 ml	500 ml	1000 ml
With graduation	21630	21631	21632	21633	21634
Without graduation	21640	21641	21642	21643	21644



### VOLUMETRIC FLASK

Volumetric Flasks, are made of borosilicate glass.  
Available in following sizes

CAPACITY	25 ml	50 ml	100 ml	250 ml	500 ml	1000 ml
CODE	20630	20631	20632	20633	20634	20635



### THISTLE FUNNEL

Stout walled ,made of neutral glass and in borosilicate glass.

Stem Length	200 mm	250 mm	300 mm
Borosilicate glass	21670	21671	21672
Neutral glass	21675	21676	21677



### MEASURING CYLINDERS

Measuring Cylinders are single piece glass cylinders.  
These autoclavable cylinders have raised prominent graduations for easy reading and have excellent contact clarity. The broad base provides good stability.

CAPACITY	10 ml	25 ml	50 ml	100 ml
CODE	21680	21681	21682	21683

CAPACITY	250 ml	500 ml	1000 ml	2000 ml
CODE	21684	21685	21686	21687



## CHEMISTRY ► GLASS LAB WARES

### TEST TUBE

Made of glass medium walled with rim for use in school, colleges, universities, research & industrial laboratories. Wall thickness is 1 mm & comes in pack of 100 pieces.



Length x O.D.mm	75 x 12	100 x 12	100 x 16	125 x 16	150 x 16	150 x 18	150 x 24
Code	21700	21701	21702	21703	21704	21705	21706

### ABSORPTION TUBES

#### STRAIGHT

Made from glass with one Bulb.

Absorption Tube Straight		
Length	Dia	Code
100mm	12mm	21730
150mm	20mm	21731
200mm	25mm	21732



#### U FORM

Made from Glass with thick and strong walls.

Absorption Tube U-form		
Length	Dia	Code
100mm	12mm	21737
125 mm	15mm	21738
200mm	20mm	21739



#### U FORM STOPPERED

Made from Corning glass with side tubes. Fitted with Key Stoppers which, when rotated, open or close the side tubes.

Absorption Tube U-form stoppered		
Length	Dia	Code
100mm	12mm	21743
125 mm	15mm	21744
200mm	20mm	21745



#### WITH SIDE TUBE

Made from Glass with thick and strong walls.

Absorption Tube with side tube		
Length	Dia	Code
100mm	12mm	21746
125 mm	15mm	21747
200mm	20mm	21748



### ABSORPTION TOWER

Code No. : 21750

Made of soda glass with capacity of 250 ml.

## CHEMISTRY ► GLASS LAB WARES

### DISTILLING TUBE



Made of glass specially designed for the use in Laboratories . Available in One Bulb, Two Bulb and Three Bulb forms with outer diameter 17 mm and Bulb diameter 40 mm as shown in the table. Photo not shown.

DISTILLING TUBE	TOTAL LENGTH	OUTER Dia.	BULB Dia.	CODE
One Bulb	250 mm	17 mm	40 mm	21760
Two Bulb	300 mm	17 mm	40 mm	21761
Three Bulb	300 mm	17 mm	40 mm	21762

### CONDENSERS

#### LIEBIG



Made from borosilicate glass with inner tube integrated with the body having a narrow jacket for efficient cooling

LENGTH OF JACKET X TOTAL LENGTH (cm)	30 x 48	40 x 59	50 x 71
CODE	21770	21771	21772

#### ALLIHN



Made from borosilicate glass.

LENGTH OF JACKET X TOTAL LENGTH (cm)	30 x 48	40 x 59	50 x 71
CODE	21775	21776	21777

#### GRAHAM



Made from borosilicate glass, specially designed for high degree of turbulence & permits the use of thin wall tubing without sacrificing strength.

LENGTH OF JACKET X TOTAL LENGTH (cm)	30 x 48	40 x 59	50 x 71
CODE	21780	21781	21782



## CHEMISTRY ► CORK & BUNG

### WOODEN CORK

SIZE NO.	TOP DIA IN mm	BOTTOM DIA IN mm	HEIGHT IN mm	CODE
000	6	4	13	21900
00	8	5	13	21901
0	10	7	13	21902
1	11	8	16	21903
2	13	9	18	21904
3	14	10	19	21905
4	16	11	21	21906
5	17	13	22	21907
6	19	14	24	21908
7	21	15	25	21909
8	22	16	27	21910
9	23	18	28	21911
10	25	19	31	21912
11	27	21	31	21913
12	28	22	31	21914
13	30	24	31	21915
14	31	25	31	21916
15	33	27	31	21917
16	35	29	31	21918
17	36	30	38	21919
18	38	31	38	21920
19	39	33	38	21921
20	41	34	38	21922
22	44	38	38	21923
24	47	40	38	21924
26	51	44	38	21925



### RUBBER BUNG

SIZE NO.	TOP DIA IN mm	BOTTOM DIA IN mm	HEIGHT IN mm	CODE
0000	6.5	4.5	13.5	21940
000	9	6	16	21941
00	10	7	16.5	21942
0	13	9	15.5	21943
1	14	11	18.5	21944
2	16.5	13	20	21945
3	10	14	21	21946
3A	17	14	24	21947
4	21	15	22	21948
4A	20	16.5	21	21949
5A	22.5	17.5	23	21950
6	24.5	20	24	21951
7	26	20	27.5	21952
8	26.5	21	29.5	21953
9	28	21.5	31	21954
9A	30	23	32.5	21955
10	30	26	33	21956
11	32.5	28.5	32.5	21957
12	34.5	30	34.5	21958
13	38.5	31	39	21959
13A	37.5	38.5	44	21960
13B	40	36	25.5	21961
14	41.5	32	42.5	21962
15	42	38	40.5	21963



### RUBBER STOPPER

**ONE HOLE :** Mixed packet containing following sizes:  
7 each No. 0,1,2,3,4, and 3 nos. Each of 5,7,9,10,11. Pack of 50. Code No. : 21950

**TWO HOLE :** Mixed packet containing following sizes:  
8 each No. 2,3,4,5, and 6 nos. Each of 7,9 & 3 nos. Each of 10, 11.. Pack of 50. Code No. : 21951



## CHEMISTRY ► PORCELAIN WARE

### CRUCIBLE WITH LID



Available in the various sizes mentioned below.

CAPACITY	50 ml (without lid)	10ml (with lid)	15ml (with lid)	18ml (with lid)	25ml (with lid)
CODE	21960	21961	21962	21963	21964

CAPACITY	30ml (with lid)	50ml (with lid)	80ml (with lid)	100ml (with lid)	150ml (with lid)
CODE	21965	21966	21967	21968	21969

### BASIN PORCELAIN



Available in the various sizes mentioned below.

DIAMETER	50 mm	60 mm	75 mm	85 mm	100 mm
CAPACITY	30 ml	40 ml	100 ml	125 ml	175 ml
CODE	21980	21981	21982	21983	21984

DIAMETER	110 mm	125 mm	150 mm	175 mm	200 mm	250 mm
CAPACITY	250 ml	350 ml	650 ml	800 ml	1000 ml	2000 ml
CODE	21985	21986	21987	21988	21989	21990

CHEMISTRY

### MORTAR & PESTEL



Available in the various sizes mentioned below.

OUTSIDE DIA	60 mm	75 mm	85 mm	100 mm
CODE	22000	22001	22002	22003

OUTSIDE DIA	115 mm	125 mm	150 mm	175 mm
CODE	22004	22005	22006	22007

### BEEHIVE SHELVES



SIZE	60 mm	75 mm	85 mm	100 mm
CODE	22020	22021	22022	22023

### TRIANGULAR PIPE CLAY



SIZE	50mm	60 mm	75 mm
CODE	22100	22101	22102

### POROUS POT



Height x Diameter	75 mm x 35 mm	100 mm x 25 mm	150 mm x 50 mm	150 mm x 60 mm
Code	22110	22111	22112	22113



## SILICA WARE LABORATORY

Consists of Translucent Silica ware products as mentioned below :

1. Basins with spout (Round Bottom, Flat form , Deep form , Crystallizing).
2. Crucibles and lids ( Low form , Tall form , Broad base).
3. Boats combustion with handle.
4. Crucible caking index with lid.
5. Moisture & ash determination circular capsule with ground lid.
6. Volatile matter determination coking crucible and lid.
7. Muffle trays
8. Capsules (Circular , Tobacco ash , Rectangular).
9. Triangle on Nichrome wire.
10. Silica dipping tubes - end closed.

Please see our Price-list or website for further details (capacities ,exact sizes , dimensions & code numbers for silica lab ware) .



## TEST TUBE STAND

### ALUMINIUM

Made of aluminium, from thick 18 gauge aluminium sheet & anodized, fabricated in three tier. Also available in Polypropylene as in pg. 89 .

Dia in mm.	Code for 12 Holes	Code for 18 Holes	Code for 24 Holes	Code for 36 Holes	Code for 48 Holes
12	22120	22126	22133	22140	22146
15	22121	22127	22134	22141	22147
18	22122	22128	22135	22142	22148
25	22123	22129	22136	22143	22149



## LOOP HOLDER

Code No. : 22150

9 inches long with ebonite handle & adjustable nickel-plated head to take wires not coarser than 20 s.w.g.



## RETORT STAND BASE

### RECTANGULAR

The base is available in three sizes, painted with 60 cm aluminium rod.

Retort stand base rectangular, blue colour painted, dipressed base with aluminium Also available in Polypropylene as in pg. 92 .

Size	5" x 7"	5" x 8"	6" x 9"
Code	22160	22161	22162





### RETORT STAND BASE

**TRIANGULAR :** The base is available in three sizes, painted with 60 cm aluminium rod

Retort stand base triangular, blue colour painted, dipped base with aluminium

Size	5" x 7"	5" x 8"	6" x 9"
Code	22170	22171	22173



### RECTANGULAR FLAT BOTTOM

The base is available in three sizes, painted with 60 cm aluminium rod. Retort stand base rectangular, blue colour painted, dipped base with aluminium

Size	5" x 7"	5" x 8"	6" x 9"
Code	22175	22176	22177



### BURETTE STAND

Code No. : 22190

Made of seasoned hardwood, polished with plastic clamping screws. Rods are approx. 450 x 16 mm.

Burette stand double is also available. Code No. : 22191



### FUNNEL STAND

Code No. : 22200

Made of wood nicely polished for double funnel. Also available in single funnel model. Code No. : 22201



▶ CHEMISTRY

▶ ACCESSORIES

▶ STANDS &amp; CLAMPS

**TRIPOD STAND****PAINTED**

Code: 22180

Black painted with zinc plated legs.

Size : 5" x 8".

**STAINLESS STEEL**

Code: 22181

Non-magnetic with bright finish, superior for University and Research uses.

Size : 5" x 8".

**POWDER COATED**

Powder coated, available in black / blue colour.

Size : 5" x 8".

Black	22182
Blue	22183

**BURETTE CLAMP****FISCHER CLAMP DOUBLE**

Code No. :22212

Made of die cast aluminium to hold two burettes, made of glass. High quality powder coated.

**SINGLE**

Code No. :22210

To hold single burettes, made of metal, die pressed, with built in boss head, oxidised.

**DOUBLE**

Code No. :22211

To hold two burette, made of metal, die pressed, with built in boss head, oxidised.



► CHEMISTRY ► ACCESSORIES ► CORK BORER

### CORK BORER

#### BRASS GERMAN TYPE

Superior quality



SET	SIZE	CODE
Set of 6	4-10 mm	22220
Set of 11	4-18 mm	22221
Set of 18	4-27 mm	22222

#### REGULAR NICKEL PLATED

Nickel-plated finish. Cutting tube mounted with safety under-flange in shaped handle ensuring that operator cannot be injured by a dislodged tube. With Iron rod for cleaning borers.



SET	SIZE	CODE
Set of 6	4-10 mm	22230
Set of 11	4-18 mm	22231
Set of 18	4-27 mm	22232

#### SHARPNER

Code No. :22240

Plated metal cone with hinged cutter blade set in slot and metal handle. Borer restored to circular shape by cone, edge cut to correct angle by depressing blade using thumb pressure.

For borer diameters 4-27mm.



#### CORK BORING MACHINE

Code No. :22250

For drilling uniform and straight holes in cork or rubber stoppers. Cast-iron frame with wood platform 10cm. Diameter to support work and adjustable guide rod, central hole through wheel spindle for ejector rod and introduction of lubricant (water or methylated spirit), complete with set of 12 nickel-plated borers cutting sizes from 7 to 25mm.



#### CORK PRESS

Code No. :22260

Cast iron, for softening corks evenly, by rolling, without increasing the porosity. To accommodate corks upto 32mm diameter. On wooden base.





**TEST TUBE HOLDER****CROSS SECTION**

Made of Iron & Brass with Cross pattern with wooden handle.

Material	Iron	Brass
Code	22270	22271

**STRAIGHT**

Code No. :22273

Metal zinc plated with wooden handle.

**WOODEN**

Code No. :22276

With metal spring.

**WIRE TYPE**

Available in two sizes :

Size	Small	Medium
Code	22278	22279

**CRUCIBLE TONG****C.P.**

Made of iron zinc plated/chrome plated :

Size	15 cm	20 cm	35 cm
Code	22310	22311	22312

**S.S.**

Non-magnetic, Stainless Steel bright finish.

Size	15 cm	20 cm
Code	22320	22321



▶ CHEMISTRY ▶ ACCESSORIES ▶ TONGS & CLIPS



### TONG S.S.

#### BEAKER

With bright finish available in sizes:

Size	25 cm	30 cm	32 cm
Code	22330	22331	22332

#### FLASK

With bright finish available in sizes:

Size	25 cm	30 cm	32 cm
Code	22340	22341	22342

#### FURNACE

Bright finish available in following sizes. Photo not shown

Size	50 cm	60 cm	70 cm
Code	22350	22351	22352

### CLIP

#### MOHR Code No. :22360

Made of special spring wire, chrome plated.



#### HOFFMAN

#### C.P. SUPERIOR

Made of brass available in :

Size	19 mm	25 mm
Code	22380	22381



#### C.P.

Made of special steel

Size	19 mm	25 mm
Code	22370	22371



#### BRASS

Made of brass available in :

Size	19 mm	25 mm
Code	22390	22391



CHEMISTRY



**MICRO PIPETTE****FIXED VOLUME**

Calibrated for delivery to jet, with graduation. Last drop expelled

Type of pipette.	Range [μl]	Code
Fixed Volume	5	22400
Fixed Volume	10	22401
Fixed Volume	20	22402
Fixed Volume	25	22403
Fixed Volume	50	22404
Fixed Volume	100	22405
Fixed Volume	200	22406
Fixed Volume	250	22407
Fixed Volume	500	22408
Fixed Volume	1000	22409
Fixed Volume	2000	22410
Fixed Volume	5000	22411

**VARIABLE VOLUME**

General purpose, continuously for sampling and dispensing accurate amount of liquid volumes. Multi channel micropipettes are also

VARIABLE VOLUME MICROPIPETTE		
Range [μl]	Graduation [μl]	Code
0.1 - 2.5	0.01	22420
0.5 - 10	0.1	22421
5.0-50	0.5	22422
50 - 200	1	22423
200 -1000	5	22424
10 -100	0.5	22425
100 -1000	5	22426
2.0 -20	0.1	22427
20 -200	1	22428
500- 5000	50	22429

**MULTICHANNEL**

MULTICHANNEL MICROPIPETTE		
No. of channels	Range [μl]	Code
8 channels	0.5 -10	22440
8 channels	5.0- 50	22441
8 channels	30 - 300	22442
12 channels	0.5 -10	22443
12 channels	5.0- 50	22444
12 channels	30 -300	22445

**STAND**

These pipette gives the facility to put 4 or 6 micropipettes.

Stand	Code
for 4 micropipettes	22450
for 6 micropipettes	22451



▶ CHEMISTRY ▶ ACCESSORIES ▶ CLAMP & BOSS HEAD



**CLAMP - RETORT**

FOUR PRONG

Code No. :22470

Made from specially rust proof metal.



THREE PRONG

Code No. :22471

Made from specially rust proof metal.



**BOSS HEAD**

METAL ALLOY

Code No. :22480

Made from specially metal alloy rust proof .



POWDER COATED

Code No. :22481

Powder coated.



**RETORT RING**

Made of Steel nicely painted hammer tone colour .

SIZE	CODE
75 mm	22490
100 mm	22491

CHEMISTRY



▶ CHEMISTRY ▶ ACCESSORIES ▶ SPATULA & BULBS

### SPATULA

#### S.S. FLAT/SPOON ONE END FLAT & THE OTHER END SPOON

Code :22510

Nicely bright finish for Lab use.



#### S.S. WITH WOODEN HANDLE

Available in various sizes mentioned below :

SIZE	10 cm	15 cm	18 cm	20 cm	25 cm
CODE	22523	22524	22525	22526	22527



### CHATTWAY

Made form S.S. bright finish available in sizes :

SIZE	14 cm	15 cm	16 cm	18 cm	20 cm
CODE	22514	22515	22516	22517	22518



### NUFFIELD

Code :22520

Made of Stainless steel nicely polished ,length 145 mm.



### BULB - PIPETTE

SIZE	10 ml	15 ml	25 ml
CODE	22530	22531	22532



### INFLATOR BULB

Code No. :22540

With non return valve.



### CHLOROFORM BULB

Code No. :22550

Complete with cotton net.



▶ CHEMISTRY ▶ ACCESSORIES ▶ TUBES & TEATS



### RUBBER TUBING

Superior use for lab in different diameter, colour, wall thickness and different lengths which are as follows :

BoreWall	8.2mm	4.75mm	5.40mm	7.9mm	7.9mm	9.5mm	9.5mm
Thickness	1.6 mm	1.6 mm	1.6mm	1.6mm	2.0mm	2.0mm	2.4mm
Code	22560	22561	22562	22563	22564	22565	22566



### DROPPER

With rubber teat and glass jet. Rubber teat can be either Black or Red in colour.

Also available in Latex with natural colour & green colour.

Colour	Black	Red	Natural	Green
Code	22580	22581	22585	22586

### TEAT

#### PIPETTE

Code No. :22590

Latex approx 7 cm.



#### DROPPER

Latex available in two sizes .

Size	Small	Medium
Code	22600	22601

CHEMISTRY



**BRUSHES****CYLINDER**

Nylon head with Fan shaped end, on galvanised wire.

Head dia x Length	Over all Length	Code
120 x 65 mm	600 mm	22610
140 x 75 mm	600 mm	22611

**BOTTLE**

Bristle head on Nylon handle

Head length x dia	Overall Length	For Bottle size	Code
65 x 45 mm	300 mm	125 ml	22620
75 x 50 mm	350 mm	250 ml	22621
100 x 65 mm	400 mm	500 ml	22622
150 x 75 mm	750 mm	1000 ml	22623

**TEST TUBE**

Bristle , on galvanised wire. Head sizes available are  
Overall size 230 mm

Size	65 x 40 mm	50 x 60 mm
Code	22630	22631

**BEAKER**

Code No. :22640

Bristle head , 150 mm long x 70 mm. Diameter on hardwood handle. Overall length 400 mm.





## LABCOATS

### MEN

Made of white polyester/white drill. Modern styling with concealed buttons, back vent & three large pockets. Length 100 cms.

Chest in cms	96	108
Code	22650	22651

### WOMEN

Made of white polyester/white drill. Modern styling with concealed buttons, back vent & three large pockets. Length 100 cms.

Chest in cms	84	92
Code	22670	22671

CHEMISTRY

### KIPP'S APPARATUS

Kipp's Apparatus made of Polyethylene has three main portions. The top portion is fitted with a thistle funnel and a bulb structure through which dilute acid can be poured which reacts with a metal sulphide in the base of the Apparatus.  $H_2S$  gas then evolved collects in the middle dome from where it can be released through a leakproof stopcock fitted with a self lubricating PTFE plug. The base is provided with a residual outlet fitted with a cap for easy cleaning.

Material: High Density Polyethylene.

CAPACITY	Polyethylene
250 ml.	22800
500 ml.	22801
1000 ml.	22802



### HOFFMAN VOLTAMETER WITHOUT STAND

Graduated glass unit each limb is 0 to 50 x 0.2 ml without stand.

Platinum electrode for demonstration of electrolysis of water. Carbon electrode is used for Ammonia and Hydrochloric Acid. Both are mounted on Rubber stopper for insertion into the open end of the Voltmeter Limbs. The glass units has two connected limbs each of cap. 50 ml approx. along with Reservoir tube and funnel shaped bulb with stop cocks on the back of each limb, for use with 12 volt electric power supply.

Material	Code
Borosilicate glass	22810
Neutral glass	22811





▶ CHEMISTRY ▶ HARDWARE ▶ TAPS



### GAS TAP BLACK PAINTED

Made of brass, lever handle, spring loaded, locking arrangement to ensure rotation does not go beyond 90°, standard 3mm bore inlet 1/4 inches BSP, flange dia 54mm, with three screws to fix on bench or any other surface. Designed to operate at pressure upto 2 psi (0.14kg/cm<sup>2</sup>) painted with special scratch chemical resistant paint available in following sizes:

TYPE	One way	Two way	Three way
CODE	22820	22821	22822



### CHROME PLATED

Made of brass, lever handle, spring loaded, locking arrangement to ensure rotation does not go beyond 90°, standard 3mm bore inlet 1/4 inches BSP, flange dia 54mm, with three screws to fix on bench or any other surface. Designed to operate at pressure upto 2 psi (0.14kg/cm<sup>2</sup>) Chrome plated.

TYPE	One way	Two way	Three way
CODE	22830	22831	22832

### WATER TAP SWAN NECK



Available in black oxidised. Made of brass, inlet tail is threaded 1/2 inch BSP outlet tube is made out of 15mm, brass tubing which is coupled to the tap standard by means of a sleeve not allowing the neck to swivel or be locked in a desired position. Leakproof operation, bench mounting.

TYPE	BLACK OXIDISED
One way	22840
Two way	22841
Three way	22842



Available in chrome plated. Made of brass, chrome finish, inlet tail is threaded 1/2 inch BSP outlet tube is made out of 15mm, brass tubing which is coupled to the tap standard by means of a sleeve not allowing the neck to swivel or be locked in a desired position. Leakproof operation, bench mounting.

TYPE	CHROME PLATED
One way	22850
Two way	22851
Three way	22852

### MODEL ATOMIC SET

#### SUPERIOR

Atomic model superior, comprises 60 moulded plastic balls of 3 sizes - 12 mm, 19 mm, 25 mm to represent different elements with 25 lugs which represent valency bonds. Supplied in a plastic box.

Also available in 120 balls and 360 balls.

No. of Balls	60	120	360
Code	23010	23011	23012

#### REGULAR

Code No. : 23015

Atomic model regular, comprises 60 moulded plastic balls of 3 sizes - 12 mm, 19 mm, 25 mm to represent different elements with 25 lugs which represent valency bonds. Supplied in a plastic box.

### ATOMIC MODEL SET

These Polystyrene sets consist of moulded balls of different colours and sizes along with connecting lugs of different sizes. These sets are very helpful in modelling different organic & Inorganic compounds.

#### SENIOR SET

Code No. : 23020

This set consists of 150 lugs & 370 balls of prescribed colours & sizes, packed in a moulded box having separate space for every particular colour & size of ball.

#### JUNIOR SET

Code No. : 23021

This set consists of 30 connecting lugs & 75 balls of different colours & sizes.

### CRYSTAL MODEL SET

Code No. : 23032

These Crystal Model Sets contain different coloured jacks (Red, Black & White) & connectors (long & short) in a prescribed number to be joined together in an illustrated way to form structures like Diamond, Graphite & Sodium Chloride.





## CHEMISTRY CHARTS

### CHARTS

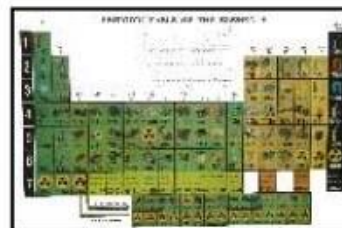
Paper laminated 56cmx90cm



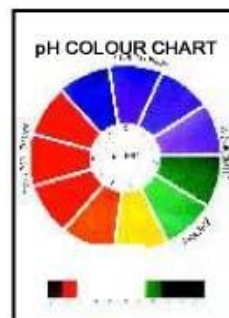
METALS

S.No.	CHEMISTRY CHARTS	CODE
1	The Elements	23300
2	Solids, Liquids & Gases	23301
3	Metals	23302
4	Iron & Steel & Other Metals	23303
5	Hydrogen & the Halogens	23304
6	Carbon, Sulphur & Phosphorus	23305
7	The Air	23306
8	Bonding	23307
9	Compounds & Mixtures	23308
10	Chemical Reactions	23309
11	Oxidation & Reduction	23310
12	Electrolysis	23311
14	Acids, Bases & Alkalis	23312
15	Salts	23313
16	Crystals	23314
17	Organic Chemistry	23315
18	Alcohols & Organic Acids	23316
19	Crude Oil	23317
20	Water	23318
21	Plastics & Natural Polymers	23319

Particulars	Code
Periodic Table of The Elements.	23330
Laboratory Safety.	23340
Laboratory Techniques.	23350
pH colour chart.	23360
Periodic Table of The Elements.	23370



PERIODIC TABLE OF THE ELEMENTS LONG FORM																					
MODERN PERIODIC LAW AS STATED BY MOSELEY:-																					
H																	He				
Li	Be															B	C	N	O	F	Ne
Na	Mg															Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr				
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe				
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn				
Fr	Ra	Ac	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk				
Eka																					
La	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu						
Ac	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr						

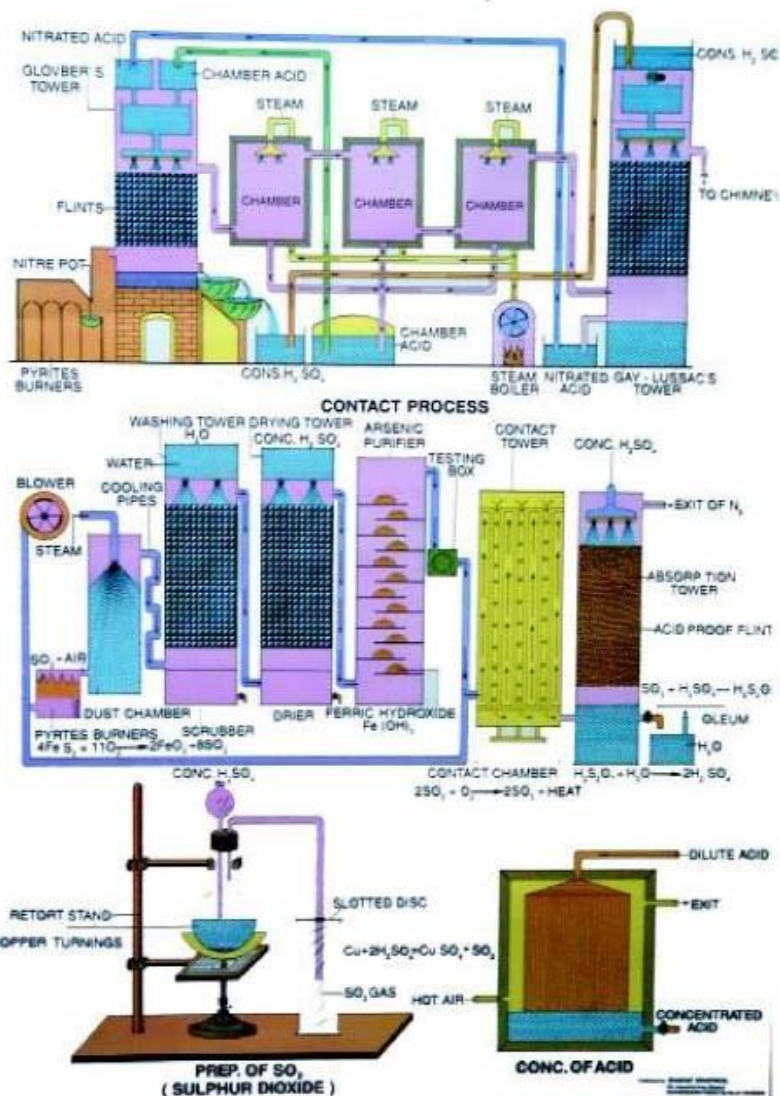


CHEMISTRY



## POLYART CHARTS

## Manufacture of Sulphuric Acid



100cmx75cm fitted with plastic rollers

CODE	CHARTS
23390	Preparation of Ammonia
23391	Preparation of Hydrogen
23392	Preparation of Nitric Acid
23393	Extraction of Metals
23394	Preparation of Oxygen
23395	Manufacture of Sulphuric Acid
23396	Periodic Tables of the Elements
23397	Shapes of atomic Orbitals
23398	Relative Energies of Orbitals
23399	Formation of Molecular orbitals
23400	Geometry of Molecules Part-I
23401	Geometry of Molecules Part-II

CODE	CHARTS
23410	Hybridisation
23411	Orbital Structure of Benzene
23412	Confirmation in Hydrocarbons
23413	Structure of Ionic Solids
23414	Types of Crystal Structure
23415	3D Arrangement Solids
23416	Structural Isomerism Part-I
23417	Structural Isomerism Part-II
23418	Stereoisomerism Part-I
23419	Stereoisomerism Part-II
23420	Estimation of Nitrogen
23421	Determination of Molecular Mass

CODE	CHARTS
23430	Extraction of Metals
23431	Refining of Petroleum
23432	Preparation of Carbon Dioxide
23433	Preparation of Hydrochloric Acid
23434	Extraction of Aluminium
23435	Types of Cells
23436	Oxidation & Reduction
23437	Protein Synthesis
23438	Structure of DNA
23439	Structure of RNA
23440	Glycolysis

**DIGITAL pH METER**

Code No. :20460

PH Meter for Laboratory and Field use.

Measuring point.	:0 to 14ph. with automatic polarity & decimal
Resolution	:0.01 Ph. for Ph measurement
Accuracy	:± 0.1% ± 2 digit
Temp. Compensation Range	:0 to 80° C manual
Read out	:Digital bright, LED type 3½ digit 7 segment 12.5mm
Height Electrode	:Glass Combination Type
Power Requirements	:230V± 10% AC 50 Hz

**TABLE MODEL**

Code No. :20470

With manual / auto temperature compensation,  
With combined pH electrode and a 3½ digit LED Display. Table model.

**DIGITAL CONDUCTIVITY METER**

Code No. :20480

**SPECIFICATIONS:**

Read out	:Digital bright, LED type
3½	
Indication resistance.	:Direct conductance &
Range Conductance	:0.01 Microohm to 1000m
Mho	
Resistance	:1 ohms to 2 M ohms
Accuracy Conductance	:± 0.5% of range ±1digit
Accuracy Resistance	:± 1% of range ±1digit
Cell constant compensation	:0.5 to 1.5
Power Requirements	:230V± 10% AC 50 Hz





## CHEMISTRY ► PAPER ► FILTER & LITMUS



### FILTER PAPER

Round shaped in pack of 100s for use in School for general purpose.

	Size in cms	9	11.5	12.5	15	18	21.5	22	24
Economic	Codes	20370	20371	20372	20373	20374	20375	20376	20377
Regular	Codes	20380	20381	20382	20383	20384	20385	20386	20387
Suprior	Codes	20390	20391	20392	20393	20394	20395	20396	20397



### LITMUS PAPER

Supplied in books of 20 leaves of size 63.5 x 10 mm. Packed in box of 5 books each. Available in

LITMUS PAPER	CODE
RED	20400
BLUE	20405



### PH INDICATOR

Code No. :20420

Supplied in box of 5 books and each containing 20 leaves of size 63.5 x 10 mm.

The pH range is 1 to 10.



### PH DISPENSOR PAPER

Indicator paper supplied in plastic dispenser containing 5 meters of 8 mm wide test strip. A colour chart is provided on the side of each dispenser. Full range paper covering from 1-10 pH in step of 1 pH.

Also available in 10-20 pH range.

pH Range	CODE
1 to 10	20430
10 to 20	20431



### ALCOHOL SWAB

Code No. :20440

Single use alcohol Swab for external use. 70% Isopropyl Alcohol (saturated)



### LENS CLEANING TISSUE PAPER

Code No. :20450

Pack of 100 leaves.  
Size : 9 x 14.5 mm



## CHEMISTRY

## ELECTRONIC BALANCE & BURNER

### CB SERIES

Backlight LCD/LED display with 8 different weighing units such as g, ct, tola etc. Piece counting & percentage weighing function.

CODE	MODELS	CAPACITY	READABILITY	PAN SIZE(mm)
10110	CB 302	300 gms	0.01 gm	118 mm dia
10111	CB 602	600 gms	0.01 gm	
10113	CB 1202	1200 gms	0.01 gm	118 x 140 mm
10114	CB 3001	3100 gms	0.1 gm	

### POCKET SCALES

Simple battery operated model with precise & accurate reading. LCD display with optional power supply.

CODE	MODELS	CAPACITY	READABILITY	PAN SIZE(mm)
10130	PA 100	100 gms	0.01 gm	65 x 75
10131	PA 200	200 gms	0.01 gm	
10132	PA 250	250 gms	0.05 gm	35 mm dia
10133	CC 50	50 ct/10 gms	0.01 ct/0.001 gm	
10134	CC 100	100ct/20 gms	0.01 ct/0.002 gm	

### SPIRIT LAMP

#### BRASS

Brass sheet die pressed, with woven wick in metal holder, screw on cap available in different capacities.

Capacity	Code
50 ml	20010
100 ml	20011

#### ALUMINIUM

Aluminium sheet die pressed, with woven wick in metal holder, screw on cap available in different capacities.

Capacity	Code
50 ml	20015
100 ml	20016

#### STEEL

Steel sheet die pressed, with woven wick in metal holder, screw on cap available in different capacities

Capacity	Code
50 ml	20020
100 ml	20021

#### GLASS

Burner Methylated spirit glass available in two capacities with metal wick holder and glass stopper.

Capacity	Code
60 ml	20025
120 ml	20026



## ▶ CHEMISTRY ▶ BALANCE

### BALANCE

#### CHEMICAL

Code No. :10010

With metallic beam, flat form, nicely lacquered / nickelled and graduated in 100 divisions with Zero at centre. With selected and ground agates. Housed in polished wooden case with counter poised sliding front. Capacity : 200 gms , Sensitivity : 5 mg , Length of beam : 125 mm. Diameter of pan 75 mm, with zero adjustment and stainless steel pan 90 mm diameter with two pouring spouts and handle. Height of stirrup 175 mm. Magnetically-damped beam movement ensures rapid weighing. A platform housed in the base can be used for density determination.

Chemical Balance is also available without case. Code No:10011



#### PHYSICAL WITHOUT CASE

Code No. :10020

With metallic beam engraved with a rider scale and provided with Agate edges. Detachable pans (metallic or bakelite) are suspended from double hooks. Fitted on polished wooden base and provided with levelling screws.

Capacity : 250 gms

Sensitivity : 2 mg

Physical Balance is also available with case. Code No:10021



#### TRIPLE BEAM

Code No. :10030

A single pan low form balance with three tiered beams, which can weigh up to 2610 gms. when used with supplementary masses, the balance has three notched weighing beams with centre indicating sliding masses giving total capacity of 610 gms. Triple beam balance comes with Magnetic Damping and Additional masses are hung on the end of the beam increasing the capacity up to 2610 gms. and they can be stored in the recessed base, when not required.

Beams 0 to 500 g x 100 g, 100 g x 10 g, 0 to 10 g x 0.1g

Supplementary masses 2 x 1000g, 1 x 500g

Pan stainless steel dia. 150 mm



#### DOUBLE BEAM

Code No. :10040

Two pan balance for accurate and rapid weighing up to 2 kg. when used with supplementary masses. The balance has a cast alloy base and features angled beams with centre reading pointer, magnetic damping, spring loaded zero adjustment compensator, precision ground knives and cross braced aluminium alloy beam. Equipped with facility for under balance weighing.

Beams 0 to 200g x 10g. 0 to 10g x 0.1g

Pan, stainless steel dia - 150 mm

ACCESSORY optional - Tare (Code No. 10041)

Rod (Code No. 10042)





## CHEMISTRY ► BALANCE



### SINGLE PAN

Code No. : 10050

Balance Single Pan capacity 311g x 10mg with Four Beams each provided with a non-removable slider and graduated 0 to 200 x 100g, 0 to 100 x 10g, 0 to 10 x 1 g. and 0 to 1g x 10mg respectively. Additional masses are not required. With zero adjustment and stainless steel pan 90 mm diameter with two pouring spouts and handle. Height of stirrup 175 mm. Magnetically-damped beam movement ensures rapid weighing. A platform housed in the base can be used for density determination.



### DIAL-O-GRAM

Code No. :10055

Capacity 310g x 10mg with two beams graduated 0 to 200g x 100 g and 0 to 100g x 10g. respectively and a direct reading dial graduated 0 to 10 x 0.1 g having a vernier reading with least count 0.01g.



### COMPRESSION TYPE

Accurate & sensitive balance, wide view dial fitted with anti-rust protected parts.

CAPACITY	SUBDIVISION	CODE
5 Kg	25 gm	10060
2 Kg	10 gm	10061
500 gm	2 gm	10062

### ELECTRONIC BALANCE

#### MA SERIES

Simple battery operated model with precise & accurate reading. LCD display with optional power supply.



CODE	MODELS	CAPACITY	READABILITY	PAN SIZE(mm)
10070	MA 200	200 gms	0.01 gm	120 mm dia
10071	MA 300	300 gms	0.01 gm	155 x 155 mm
10072	MA 500	500 gms	0.05 gm	
10073	MA 1000	1000 gms	0.1 gm	
10074	MA 1500	1500 gms	0.1 gm	
10075	MA 2000	2000 gms	1 gm	
10076	MA 5000	5000 gms	1 gm	

#### CA SERIES

This model has built-in rechargeable battery with LCD display. Piece counting function is also available.



CODE	MODELS	CAPACITY	READABILITY	PAN SIZE(mm)
10090	CA 600	600 gms	0.1 gm	120 mm dia
10091	CA 1200	1200 gms	0.2 gm	180 x 140 mm
10092	CA 2000	2000 gms	1 gm	
10093	CA 3000	3000 gms	0.5 gm	
10094	CA 5	5000 gms	1 gm	



## CHEMISTRY ► BURNER



### BUNSEN BURNER

#### POWDER COATED BASE - SUPERIOR

Code No. : 20030

Bunsen burner new type brass tube 11 mm dia meter with rotatable non-removable air regulator and riffled gas inlet tube 9mm outer dia meter on heavy metal base powder coated for LPG.



#### PAINTED BASE

Code No. :20031

Nickel-plated brass tube 13mm diameter with an adjustable non-removable screw type air regulator and riffled gas inlet nickle-plated brass tube 9mm outer diameter, on heavy stable metal base synthetic stove enameled finish for LPG .



#### WITH COAL GAS

Code No. :20032

Bunsen burner new type brass tube 11 mm dia meter with rotatable non-removable air regulator and riffled gas inlet tube 9mm outer dia meter on light metal base powder coated for Coal Gas.



#### MAKER TYPE

Code No. :20040

Supplied with base with tapered riffled inlet tube. Chrome plated burner tube has perforated steel plate on top and rotatable air regulator around the jet. Overall height 150mm for LPG gas.



#### 'MAKER' WITH STOP COCK

Code No. :20041

Supplied with base with tapered riffled inlet tube. Chrome plated burner tube has perforated steel plate on top and stopcock air regulator around the jet. Overall height 150mm for LPG gas.

CHEMISTRY

## CHEMISTRY

## HOT PLATE, WATER STILL &amp; HEATING MANTLE

## HOT PLATE

## ROUND

The body is made of P.C.R.C. sheet painted with attractive stove enamel. The top of plate is 20.5 cm dia fitted with an indicating lamp. This type of heating plate is very useful for fast heating upto 500°C. To work on 220/230 Volts A.C.

SIZE	RATING	Code
20.5 cm ( 8" )	1.5 K.w.	20320



## RECTANGULAR

The body is made of specially designed with P.C.R.C. sheet painted with attractive stove enamel. This is useful for continuous heating upto 350°C. To work on 220/230 Volts A.C.

SIZE	With Energy regulator	With thermostat upto 300deg.C	With Digital Controller
250 X 300 X 180MM, 1.2KW	20300	20305	20310
250 X 400 X 180MM, 1.5KW	20301	20306	20311
300 X 450 X 180MM, 2.2KW	20302	20307	20312

## WATER STILL

The unit is recommended for making pyrogen free water of a very High degree of purity. This still is fitted with ISI mark Kettle Element with ejection device. The complete unit is made of stainless steel except tap, to work on 220/230 Volts A.C.

OUTPUT	LOAD	CODE
4 Lt./hour	2 Pc. X 1.5 K.w.	20330
6 Lt./hour	3 Pc. X 1.5 K.w.	20331



## MANTLE

Suitable for Laboratories, Chemicals, Pharmaceuticals, Dyes, Glass Plants etc. Particularly useful for Heating inflammable liquids. Electric heating net is hand knitted from glass yarn and there is no joint to maintain the strength of the yarn and stands high temperature upto 350°C.

The body of the mantle is spun from one piece of non rusting Aluminium (upto 5.0 Lt. Capacity) duly Stoving Painted. All heating mantles are lagged with special grade mineral wool. To work on 220/230 Volts A.C.

MANTLE		
CAPACITY	WITH ENERGY REGULATOR	WITH DIGITAL CONTROLLER
50ML & 100ML, 80 WATTS	20340	20350
250ML & 500ML, 200 WATTS	20341	20351
1 LTR., 300 WATTS	20342	20352
2 LTR., 450 WATTS	20343	20353
3 LTR., 500 WATTS	20344	20354
5 LTR., 600 WATTS	20345	20355
10 LTR., 2x600 WATTS	20346	20356
20 LTR., 3x650 WATTS	20347	20357
50 LTR., 5x850 WATTS	20348	20358



## MOISTURE DISH

Moisture dish is made of stainless steel as under:

Diameter	Height	Code
70 mm	17 mm	20360
55 mm	22 mm	20361





## MUFFLE FURNACE

Maximum Temp. 950°C - working temp. 900°C.

Light weight with ceramic fibre wool insulation. The outer casing is made of double walled thick P.C.R.C. sheet painted with attractive stove enamel. Heating elements are made of KANTHAL wire backed by cerawool insulation.

A viewing cap is also provided on the door. Temperature control unit consists of Energy regulator & Pyrometer with silver thermal fuse or with Digital controller cum indicator to work on 220/230 Volts AC with an accuracy of  $\pm 3^\circ\text{C}$  or better.

Also available in High temperature of 1200°C.

SIZE	TYPE	950 Deg
100 X 100 X 225MM, 1.8KW	With E/R & Pyrometer	20061
100 X 100 X 225MM, 1.8KW	With Digital Controller	20062
125 X 125 X 250MM, 2.2KW	With E/R & Pyrometer	20065
125 X 125 X 250MM, 2.2KW	With Digital Controller	20066
150 X 150 X 300M, 3.0KW	With E/R & Pyrometer	20068
150 X 150 X 300MM, 3.0KW	With Digital Controller	20069
200 X 200 X 300MM, 4.0KW	With E/R & Pyrometer	20070
200 X 200 X 300MM, 4.0KW	With Digital Controller	20071

Furnace With Digital Controller cum indicator	1200 Deg
100 X 100 X 225MM, 1.8KW	20075
125 X 125 X 250MM, 2.2KW	20080
150 X 150 X 300MM, 3.0KW	20081
200 X 200 X 300MM, 4.0KW	20085
200 X 200 X 400MM, 5.0KW	20086
300 X 300 X 300MM, 6.0KW	20090
300 X 300 X 450MM, 9.0KW	20091
300 X 300 X 600MM, 12.0KW	20092



## OVEN

In this system there is one path of circulating Hot Air in between the inner chamber and insulation. Forced Air moved by the motorised blower is called PERFECT SYSTEM. It results in minimum temperature variation at any point in working space.

Temperature controlled by a PID controller with Digital Indicator fitted with Safety Alarm from 50°C above ambient to 250°C with a sensitivity of  $\pm 1^\circ\text{C}$  or better in Bare Oven. Working chamber is made of Stainless Steel 304 grade and outside made of mild steel painted with good stoving enamel with adjustable wire mesh nickel plated trays. To work on 220/230 Volts A.C. Supply.

OVEN UNIVERSAL TYPE UPTO 250 DEGREE C		
SIZE	ALUMINIUM	STAINLESS STEEL
300 x 300 x 300mm, 27 LTR, 2 TRAY	20100	20105
350 x 350 x 350mm, 43 LTR, 2 TRAY	20110	20115
450 x 450 x 450mm, 91 LTR, 2 TRAY	20120	20125
450 x 600 x 450mm, 122 LTR, 2 TRAY	20130	20135
600 x 600 x 600mm, 216 LTR, 2 TRAY	20140	20145
600 x 900 x 450mm, 243 LTR, 3 TRAY	20150	20155
600 x 900 x 600mm, 324 LTR, 3 TRAY	20160	20165



## INCUBATOR

Temperature Thermostatically controlled by hydraulic thermostat 5°C above ambient to 70°C with a sensitivity of  $\pm 0.5^\circ\text{C}$  in Bare Incubator. Beaded heating elements are placed in ribs at the bottom and sides. Double walled, inside Aluminium Anodized or Stainless Steel & Outside mild steel sheet painted with attractive stove enamel. Door has double glass viewing, built in horizontal L-shape glass thermometer with wire mesh nickel plated adjustable trays, Rocker Switch and indicator & Thermostat Indicator to work on 220/230 Volts A.C.

INCUBATOR		
SIZE	ALUMINIUM	STAINLESS STEEL
300 x 300 x 300mm, 27 LTR, 2 TRAY	20180	20185
350 x 350 x 350mm, 43 LTR, 2 TRAY	20190	20195
450 x 450 x 450mm, 91 LTR, 2 TRAY	20200	20205
450 x 600 x 450mm, 122 LTR, 2 TRAY	20210	20215
600 x 600 x 600mm, 216 LTR, 2 TRAY	20220	20225
600 x 900 x 450mm, 243 LTR, 3 TRAY	20230	20235
600 x 900 x 600mm, 324 LTR, 3 TRAY	20240	20245





## CHEMISTRY ► MAGNETIC STIRRERS



### MAGNETIC STIRRERS

The Stainless steel top housing series of magnetic stirrers are most compact models. PMDC motor gives higher torque even at lower speeds and maintains speed stability despite viscosity or volume changes. Accurate stepless speed control allows smooth variation upto 1200 rpm. Stirring is accomplished by a small Teflon coated magnetic paddle to be placed in the container.

#### TECHNICAL DATA

Capacity	Ltrs	500 ml	1	2	5
WxDxH	mm	105 x 135 x 70	145 x 185 x 135	145 x 185 x 135	180 x 195 x 135
Stirring Paddle	ø x length	7 x 15 mm	9x25mm	9x35mm	13x50mm
Code		22860	22861	22862	22863

Supply : 220-240 Volts 50 Hz Single Phase



### MAGNETIC STIRRERS WITH HOTPLATE

Magnetic stirrers with hot plate are similar to the above magnetic stirrers but have additional stainless steel hot plate. PMDC motor gives higher torque even at lower speeds and maintains speed stability despite viscosity or volume changes. Accurate stepless speed control allows smooth variation upto 1200 rpm. Heating energy is controlled by energy regulator.

Saient Features :

PMDC motor for higher torque even at low speeds.

Better low speed stirring even with small volume.

Accurate stepless speed control maintains excellent speed stability.

Specially designed for corrosive atmosphere reducing the changes of fumes entering the unit.

#### TECHNICAL DATA

Stirring capacity	Ltrs	1	2	5
Heating capacity	Watts	150	300	500
WxDxH	mm	160 x 200 x 160	160 x 200 x 160	175 x 225 x 185
Stirring Paddle	øxlength	9 x 25 mm	9 x 35mm	13 x 50mm
Code		22870	22871	22872

Supply : 220-240 Volts 50 Hz Single Phase

CHEMISTRY

## ▶ CHEMISTRY ▶ MAGNETIC STIRRERS

### DELUXE MAGNETIC STIRRERS

These deluxe magnetic stirrers are unique in design, totally enclosed, highly chemical resistant even to acid and alkali. Ideal for all types of laboratory stirring applications from 500 ml to 10 litres. These magnetic stirrers give better speed regulation even at low speed. The stirring speed and heating energy is controlled by stepless speed and energy regulator.

**Salient Features :**

Digital Speed indicator for display of stirring speed.  
 PMDC motor for higher torque even at low speeds.  
 Better low speed stirring even with small volume  
 Accurate stepless speed control maintains excellent speed stability. Specially designed for corrosive atmosphere reducing the chances of fumes entering the unit.

<b>Capacity</b>	<b>Ltrs</b>	5	10
<b>WXDXH</b>	<b>mm</b>	200 x 225 x 185	250 x 250 x 205
<b>Hot Plate</b>	<b>Watts</b>	600	
<b>Stirring Paddle</b>	<b>Ø x length</b>	13 x 50 mm	13 x 50 mm
<b>Code</b>		22880	22881

Supply 220-240 Volts 5 Hz Single Phase.



### ELECTROMAGNETIC STIRRERS

Electromagnetic (motorless) stirrer are ideally suitable for filtration & general lab mixing of solution. They incorporate superior stepless speed controller to control the speed from 100 to 650 RPM. The units have feature of reverse spin direction mode, which can be adjusted from 30 seconds to 4 minutes. In case stirring paddle flies out, it is automatically caught back with the help of Unique Catch Back feature. Different models with multiple 2, 4 & 6 stirring points also available. Supplied with Teflon Paddle 9 x 25mm.

**Salient Features :**

No moving parts or motor.

Light weight, compact size portable.

Reverse control provides automatic change of direction.

Accurate stepless speed control maintains excellent speed stability despite viscosity or volume changes.

Stirring capacity upto 1000 ml per stirring point.

#### TECHNICAL DATA

<b>Stirring points</b>	1	2	4	6
<b>W X D X H (mm)</b>	170 x 175 x 60	270 x 165 x 60	270 x 290 x 60	400 x 275 x 60
<b>Code</b>	22890	22891	22892	22893

Supply : 220-240 Volts 50 Hz Single Phase

