



RAJ SCIENTIFIC COMPANY

"A Trusted Name That Stands For Quality"



Scientific Solution for Paint and Coating Industry





Company Profile

Raj Scientific has been founded on the core values of excellence, innovation and customer satisfaction. We are totally committed to these values and have been consistently delivering quality products and services to our clients spread across the globe.

At Raj Scientific, we are focused on providing engineering services and products which are based on scientific research. Our expertise in this niche area has helped us emerge as preferred partners to conglomerates across the world.

As a company, we believe in being forward looking and continuously exploring new areas for development and working towards acquiring new technologies which will propel us into a new orbit. We believe it is this commitment to innovation and quality that has helped us grow and gain the trust as well as support of our customers. We firmly believe in working collaboratively with our clients to ensure highest levels of customer satisfaction.

Values are anchors in our organization and our commitment to our values has earned us an enviable position in the market as leading manufactures, importers and suppliers of scientific testing equipment and tools. As a progressive and socially responsible organization it is our ongoing endeavor to maintain transparency and accountability throughout manufacturing process as well as while providing after sales service. We cherish the relationship with our clients as it has been built on a strong foundation of trust and respect.

At Raj Scientific we are experts at what we do which is manufacturing scientific equipments and tools and therefore we offer bespoke solutions which add value to our clients' brand and business.

We are grateful to our clients for their ongoing support and for helping us grow as an organization. We are always working towards providing seamless and stress free experience to our customers. Our mission is to work toward an obstacle free world. You may please visit our website "www.rajscientific.com" to know more about our range of products

Our Values

- Innovation & Excellence
- Quality & Trust
- Transparency & Accountability
- Customer satisfaction

Clientele:

- Automobile Industries
- Petroleum Industries
- Chemical Industries
- Research Institutes
- Paint, Printing Ink, Powder Coating Industries
- Adhesive, Resin, Thinner, Pigment, Varnish Industries
- Oil, Grease, Bitumen, Wax Tar Industries

Let's make obstacle-free world!

Assurance

Technology

Services

Quality

Range

We Firmly believe in our tagline.... Quality, Trust & Satisfaction.

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Salt Spray Cabinet

Thermostatic dome shaped model Thermostatically controlled within built microprocessor digital temperature indicator cum controller with timer. Made from Imported 6 mm thick perspex sheet. Supplied with suitable tray, Nozzle & Hanging arrangement

Apparatus consists of:

- Salt Spray Chamber
- PID Digital Temperature indicator cum controller
- Digital Timer with memory backup
- Heater and Sensor with one spare heater.
- Atomizing Nozzles
- Hanging arrangement with tray as per Standard
- Safety Feature water level sensor for low reservoir alarm with indicator cum buzzer
- Thermostat for Temperature regulator
- Fog Collection Device

	Chamber Sizes (L x W x H)	Working Size (L x W x H)	Litre	Suitable for Panel
Ref.: 223/1	450 x 300 x 300 mm	280 x 320 x 380 mm	34	8
Ref.: 223/2	680 x 420 x 410 mm	410 x 410 x 420 mm	70	16
Ref.: 223/3	900 x 500 x 370 mm	550 x 520 x 370 mm	105	24
Ref.: 223/4	900 x 600 x 600 mm	560 x 600 x 600 mm	200	48



Control Panel



Salt Spray Corrosion Test Chamber

Features :

- FRP Double wall chamber, PU painted outer surface with built in salt solution reservoir.
- Main Spray Nozzle made of SS 316 L Grade, Suitable for ASTM Tests.
- Humidification System with automatic water level restoring system & temperature controlled water heater.
- Pressure Regulator & Pressure gauge for control & Display of Nozzle Air Pressure.
- Test Time Totalizer (Resetable) & Time Totalizer
- On line Relative Humidity(% RH) Range : 0 to 100%.
- On line Digital pH Indicator Range : 0 to 14pH
- Sample holding stand & panel rack holder.
- Controller and Pressure Gauge

Specification :

- | | | |
|--------------------------|---|-------------------------------|
| • Chamber Temperature | : | $35 \pm 2^{\circ}\text{C}$. |
| • Humidifier Temperature | : | $5 \pm 2^{\circ}\text{C}$ |
| • pH Value | : | 6.5 to 7.2 |
| • RH Value | : | $95 \pm 3\%$ |
| • Salt Solution Tank | : | 60Ltr |
| • Fog Collocation | : | 1 to 2 mL / hr. |
| • Air Pressure | : | 0.7 to 1.7 Kg/Cm ₂ |

Optional :

- Dome Lifting Control with Buzzer
- Air pressure Low Indication Buzzer.
- Auto Filling Humidifier Tank.

Standard : As per ASTM B - 117

- | | |
|----|--|
| a) | Chamber Working Size : 450 mm x 450 mm x 500 mm |
| | Capacity : 100 Litre |
| b) | Chamber Working Size : 600 mm x 600 mm x 550 mm |
| | Capacity : 200 Litre |
| c) | Chamber Working Size : 1000 mm x 700 mm x 600 mm |
| | Capacity : 400 Litre |
| d) | Chamber Working Size : 850 mm x 890 mm x 650 mm |
| | Capacity : 500 Litre |
| d) | Chamber Working Size : 1350 mm x 1000 mm x 600 mm |
| | Capacity : 800 Litre |
| d) | Chamber Working Size : 1800 mm x 1000 mm x 1000 mm |
| | Capacity : 1000 Litre |

Ref.: 225



Control Panel



Inner Chamber



Fineness of Grind Gauge

Grind Gauge is to indicate the fineness of grind or the presence of coarse particles in a sample. It does not determine particle size distribution.

Grind Gauge are used in controlling the production, and application of dispersion products produced by milling in the Paint, Plastic pigment, Printing, ink, Paper, Ceramic, Pharmaceuticals, Food.

It is a flat steel block in the surface of which are Two flat bottomed Grooves varying uniformly in depth from a maximum at one end of the block to zero near the other end. Groove depth is graduated in micron and Hegman Scale.

Standard : ASTM D 333, BS 3900

Ref.: 130/10	0 - 10 Microns	
Ref.: 130/25	0 - 25 Microns	(8 - 6) Hegman
Ref.: 130/50	0 - 50 Microns	(8 - 4) Hegman
Ref.: 130/100	0 - 100 Microns	(8 - 0) Hegman



Portable Gloss Meter

Gloss of the surface is the ratio of light reflected from the surface of the sample to the light incident on it, When the angle of incidence and reflectance are equal numerically but opposite in sign i.e. gloss is a measure of how well the surface functions as a mirror.

Salient Feature :

Portable Gloss Meter with a Micro Controller base display and rechargeable batteries.
High and Low Calibration Standard supplied for calibration.

Ref. : 224/20	For High Gloss 20°
Ref. : 224/45	For Medium Gloss 45°
Ref. : 224/60	For Medium Gloss 60°



Imported Gloss Meter

Projecting Angle : 20° / 60° / 85°
Measure Range : 0 - 200 Gu
Accuracy : $< \pm 1.2$ Gu
Standards : (High & Low Gloss)
Power : D C 1.5V x 1
Rechargeable Batteries

Ref. : 226/T	Trigloss 20°, 60°, 85°
Ref. : 226/60°I	Gloss 60°



Weight Per Litre Cup

A Stainless Steel Precision instrument for determining the specific gravity (density) of paints and similar products. This instrument consists of a cylindrical container and cover with a hole for exhaust of excess liquid. Three capacities are available : 25, 50 or 100 cc

Standard : BS 3900, ISO 2811, ASTM D 1475

Ref.: 120 / 25 Cap. 25 ml
Ref.: 120 / 50 Cap. 50 ml
Ref.: 120 / 100 Cap. 100 ml



Zahn Cup

Brass Cup with plating Fitted with handle suitable for paints and Inks, having different capillary orifice.

Zahn Cup Viscometer no. 1, 2, 3, 4, 5

Standard : ASTM D 4212 - 93

	Range (CST)	Orifice Dia (mm)
Ref.: 148/1	5 - 6	2.0
Ref.: 148/2	20 - 250	2.7
Ref.: 148/3	100 - 800	3.8
Ref.: 148/4	200 - 1200	4.3
Ref.: 148/5	400 - 1800	5.3



Kinematic Viscometer Bath

Kinematic Viscometer bath is rectangular shape. Inside tank is made of stainless steel sheet. Two sides toughened glass window provided for full visibility with light arrangement.

Four viscometer to accommodate, double glass with Digital Temperature controller cum Indicator. Supplied with viscometer Holder and suction bulb.

Viscometer glass tube Canon Fenske direct Flow, reverse flow as per IP and ASTM D standard with constant of bulb.

Size : 25, 50, 75, 100, 150, 200, 300, 350, 400, 450, 500, 600

Temperature Range : 5° above ambient to 100°C
Accuracy : $\pm 1^\circ\text{C}$
Resolution : 0.1°C
Size : 12" x 10" x 12"
Optional : GMP Model also available

Standard : IP 71, IS 1448 & ASTM D 445-72

Ref.: 274



Digital Stormer Viscometer

For measuring viscosity of non newtonian liquid such as paints, resin etc. Rotating Paddle driven by adjusting weights to determine viscosity. Viscosity in Krebs (KU) can be get through Conversion Table.

- Easy to use
- Rotation at 200 rpm with audio and visual indication.
- Rapid and accurate measurement of viscosity in krebs or centripoise.
- Supplied with container and different weights
- Tachometer Version
- Digital RPM Display
- Complies with IS : 101 (Part 1 / Secs) 1989
ASTM D 562
- Range : 800 - 5220 CPS
54 - 140 KU

Ref.: 248/1 ASTM D 562

Ref.: 248/2 IS : 101



Flow Cup

Flow cups made from brass or Aluminium for measuring viscosity of paint varnishes, Measured value will get in seconds. Flow time. Flow cup available with stand.

Digital Stop Watch Multi Functional (1/100 Sec.) for measuring time value.

Standard : IS 101, (Part 1 / Sec 5) 1989
DIN 53211, ASTM D 1200

Flow Cup	Orifice diameter
B2	2.38
B3	3.17
B4	3.97
B5	4.76
B6	7.12

Ref.: 146



Cupping Test Apparatus

To Know the quality of point on the pre-painted sheet samples are cut and deep drawn according to Erichsen principle to determine the depth to which they can be drawn before the paint cracks.

Hand operated, rugged ERICHSEN TESTER is designed to find the deep drawability (ductility) of metallic sheets and strips as per Erichsen Principle for cupping test.

Pressing the clamped test piece into a die by means of a ball or penetrator with a spherical end until rupture commences, measuring the depth of the cup.

Die Diameter : 27 mm

Punch Diameter : 20 mm

**Standard : DIN 53156
ISO - R149**

Optional : Digital Display

Ref.: 750 Range 0 - 2 mm



Colour Matching Cabinet

Colour looks different under different lighting condition. Colour Matching Cabinet reduces the difference between neutral view and standard light source.

Useful in paint, automobile ink, Printing, Packaging and textile Industry. Where to maintain Colour Consistency and quality.

Specifications of illuminations:

- | | |
|-------------------------------|---------|
| • Daylight D 65 (6500 K) | - 1 No. |
| • Incandescent 2856 K (A) | - 1 No. |
| • D 50 (5000 k) (CDL) | - 1 No. |
| • Ultraviolet (UV) | - 1 No. |
| • TL 84 | - 1 No. |
| • Coolwhite fluorescent (CWL) | - 1 No. |

Size : 28" X 20" X 16"

Ref. : 945



Pencil Hardness Tester

Scratch Hardness tests is to determine the resistance of coating materials to scratch effects on the surface.

In the test, Pencils of various degrees of hardness are moved over the surface under a Fixed Pressure and angle to the surface. The degree of hardness of the Pencil which damages the surface is taken as a measurement of scratch hardness e.g. "3H" Hardness

- Pencil Guide with Imported Staedtler German or Uni Mitsubishi Japanese 12/20 Pencils.
- Pencils 9B,8B,7B,6B,5B,4B,3B,2B,B,HB,F,H,2H,3H,4H,5H,6H,7H,8H,9H

Standard : ASTMD 3363, ISO - 15184

Ref.: 122 / 12 Pencil Guide with 12 Pencils

Ref.: 122 / 20 Pencil Guide with 20 Pencils



Automatic Scratch Tester

A test panel is clamped driven by constant speed while needle scratches the surface.

By increasing the load determine at which load needle is penetrating. Voltmeter indicates the Contact of the needle with the metallic surface.

Automatic Electrically operated model with weights and two tungsten carbide needle.

Suitable Panel Size : 150 x 75 x 1mm

Standard : BS 3900, E2, IS 101 : 1964

Ref.: 132/1 Cap. 1.5 Kg

Ref.: 132/5 Cap. 5 Kg



Hand Operated Scratch Tester

Supplied with weights and needles.

Suitable Panel Size : 150 x 75 x 1mm

Standard : IS

Ref.: 133/1 Cap. 1.5 Kg

Ref.: 133/3 Cap. 3 Kg



Tubular Impact Tester

This instrument allows both the failure point to be measured. It can be used with paints, varnishes, plastic coating, laminations and sheet materials. A sample clamp securely hold the test piece. Impact can be varied by adjusting weights or heights.

Aluminum Tube duly powder coated marked in inches or centimeter

Standard tube lengths are 25" and 40"

Different weights 2 LB, 4 LB, 6 LB

Standard : ASTM 2794, IS : 101

Ref.: 134



Wedge bend Tester

Ref. 138



Penetrometer

For determine semi solid to solid materials, such as grease, waxes, cosmetics, Paint. Using Penetration in the sample by a cone of definite weight (50 or 100) gms fitted to rod. By adjusting arm to touch the surface of the sample, automatic timer is also available.

Centering device

Dial with brass cone and container

Standard : ASTM D 937, ASTM D 217, IS 1448, IP-50

Ref. 140 / 1 Unit with standard accessories and geared arrangement.

Ref. 140 / 2 Unit with standard accessories, Automatic digital timer and geared arrangement.



FALLING BLOCK IMPACT TESTER

Falling Block Impact Tester as per BS 3900, Part E - 3
Block weight falls from the heights of 740 mm.
Which evaluate the coating resistance to the impact.

Feature :

Easy to use
Fast and safe impact release systems.

Specification :

Impact Weight : 4.750 kg
Max. Height : 740 mm
Indenter dia : Ø 14 mm

Ref.: 277

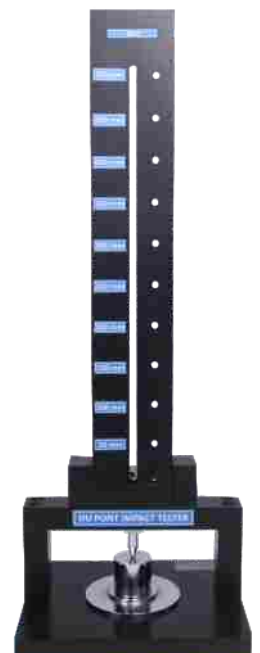


Dupont Impact Tester

Specification:

Dropping Heights	:	100,200,300,400 & 500 mm
Dropping Weights	:	100,300,500,1000 gm
Indentors	:	Having Spherical ends with Radi of 1.6,3.2,4.8,6.35,12.7 mm (One piece each) & one piece Plane indenter
Impact Receiver Blocks :		Having spherical dents of Radi 2.8,4.4,6.0,7.55,13.9 m.m (One piece each)
Holding Pin	:	To Hold the weight at a particular height

Ref. 135



Conical Mandrel Tester

Determine flexibility of painted panels which are clamped and formed round the conical mandrel by rotation of the roller frame. The mandrel is tapered from 1 ½" to 1/8" along its length.

Mandrel marking from 37 mm to 6 mm diameter. After test the panels are examined to determine minimum diameter at which failure by elongation occurs.

Range 38 mm to 3mm dia.

Standard : ASTM D 522, BS 3900 - E11, ISO 686

Ref.: 116



Cylindrical Mandrel Bending Tester

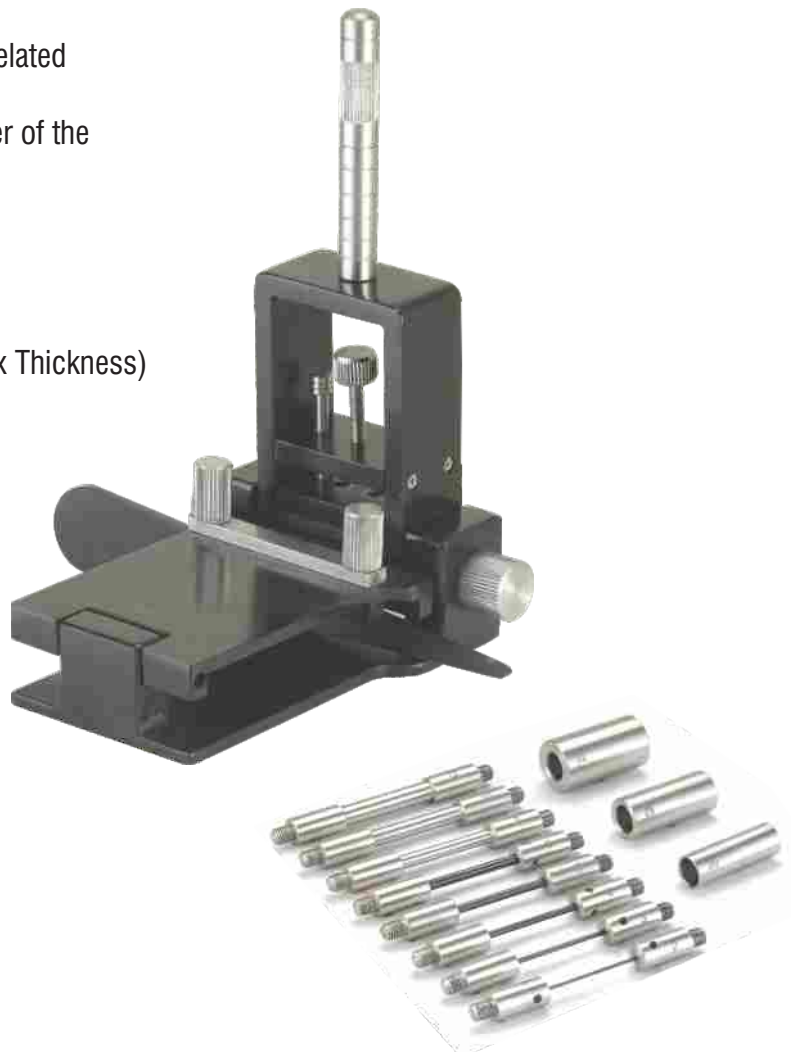
To test the resistance of a coating of paint, varnish or related product to cracking or detachment from a metal panel. The Instrument can be adjusted to the different diameter of the Mandrel & the Mandrels are easily changeable.

Metric Mandrel Set
(2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32 mm) Mandrel

Suitable Panel Size : 150 x 50 x 1mm (Length x Width x Thickness)

ASTMD - 522, DIN - 53152

Ref.: 118



Cross Hatch Cutter

The Cross test is used to access adhesion of paint coatings. This cutter having single cutting blades. Test is carried out by performing crossed cuts at right angle. After clear with adhesive tape and brush. According to coating thickness select suitable model. Useful for Flat surface

1 mm model	11 Blades	(Coating up to 60 micron)
2 mm model	6 Blades	(Coating 60 - 120 micron)
3 mm model	5 Blades	(Coating 120 - 250 micron)

Standard : ASTM D 3002, 3359 & IS

IS Standard		ASTM D Standard	
Ref.: 114 / 1	1 mm	Ref.: 114 / 4	1 mm
Ref.: 114 / 2	2 mm	Ref.: 114 / 5	2 mm
Ref.: 114 / 3	3 mm	Ref.: 114 / 6	3 mm

Ref.: 114 / 7 Adhesive Tape (ISO Certified)
Ref.: 114 / 8 Scotch Tape (3M USA Make)



Wet Film Calling Card Thickness Gauge

Simple operating Stainless Steel comb with tooth lengths varying by equal amount is applied perpendicular to the wet film and thickness can read on the last tooth made contact with the wet coating.

Standard : ASTM D 4414, BS 3900,

Ref.: 166 / 100	Range : 5 - 100 Microns
Ref.: 166 / 500	Range : 25 - 500 Microns
Ref.: 166 / 2000	Range : 25 - 2000 Microns

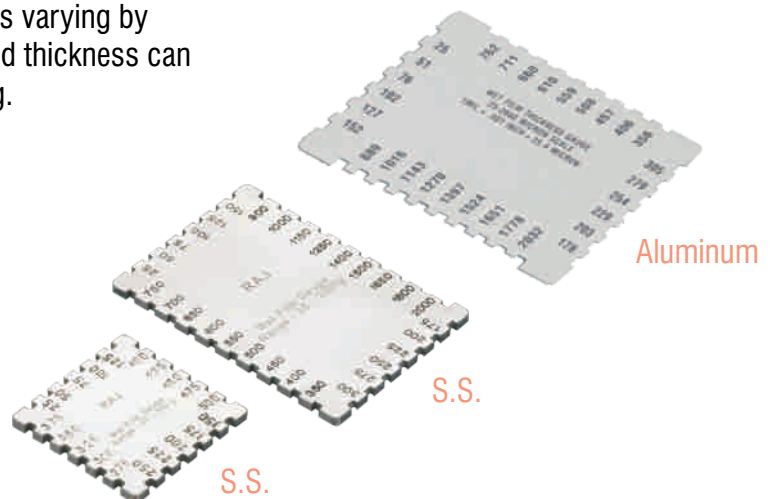
Wet Film Comb Made of Aluminium

Imported Make

Range : 25 - 2000 microns
(1 - 80 Mil / Thou)

Standard : ASTM D 4414, BS 3900, ISO 2808

Ref.: 168



Wet Film Wheel Thickness Gauge

Stainless Steel hardened and ground double wheel with an eccentric cam in the center is rolled over newly applied film. The wetting line on the centre cam is read on a scale as wet film thickness.

Standard : IS, ASTM D 1212

Ref.: 167 / 100	Range : 0 - 100 Microns
Ref.: 167 / 200	Range : 0 - 200 Microns



Pencil Thickness Gauge

This will measure non - magnetic coatings, e.g. chrome, copper, zinc, paint, powder coating etc., on iron, mild steel, magnetic stainless steel, Magnetic base with pointer and holder facility.

Ref.: 101 / 1 Range : 0 - 250 Microns
Ref.: 101 / 2 Range : 50 - 800 Microns



Digital Coating Thickness Gauge

Non Magnetic Coating on magnetic base (Ferrous Model)
(Elecoat - Raj)

Base : Magnetic Stainless Steel (M.S.).
Coating : Zinc, Paint, Powder Coating, Gold, Copper, Tin, Chromium, hard Chromium, Lead.
Resolution (microns) : 0.1 / 1 micron
Accuracy : 1-2%

Range : 0 - 2000 micron Ref:104/1



Digital Coating Thickness Gauge

Non conductive Coating on Conductive base. (Non Ferrous Model)

Base : Aluminium, Brass, Copper.
Coating : Paint, Powder coating, Teflon.
Resolution : Upto 20 micron, 1 micron above 20 micron
Accuracy : 1.5 % or 2 micron whichever is more

Range : 0 - 1500 micron Ref.: 105



Digital Coating Thickness Gauge

For Both Ferrous & Non- Ferrous Bases
COATMEASURE - M & C "

Resolution : 0.1 / 1 micron
Accuracy : 1.5% of reading or 2 microns
Range : 0 to 1250 micron

Ref. : 103



Ferrous and Non Ferrous Model

Imported Make

Features:

LCD display & Calibration Facility

Specifications :

Probe - F : Measuring Principle - Magnetic Induction
Probe - N : Measuring Principle - Eddy Currents
Measuring Range : 0 to 1200um
Accuracy : $\pm (1\% + 2\mu\text{m})$
Resolution : 1um

Optional :

- Statistics display: mean, min., max. and standard deviation;
- USB interface to data transmission;
- Low battery and error indication; Auto off
- Standard Foil with substrate.
- Memory : 80 reading

Ref. : 108



Film Applicator

Applicator are designed for the production of uniform films of paints, adhesive and similar products on plane substrates. They combine the accuracy of fixed applicators with the versatility of multiple clearance/gap choices in one unit. These applicator suitable for use of aqueous acid and alkaline products.

Film width : 4"

Range : 25, 50, 75, 100, 150, 200, 250, 300, 500,800 Microns

Ref.: 112



4 Sided Film Applicator

Applicator are designed for the production of uniform films of paints, adhesive and similar products on plane substrates. They combine the accuracy of fixed applicators with the versatility of multiple clearance/gap choices in one unit. These applicator suitable for use of aqueous acid and alkaline products.

Film width : 4"

Ref.: 113/1 Range 30, 60, 90, 120 Microns

Ref.: 113/2 Range 25, 50, 75, 100 Microns

Ref.: 113/3 Range 50, 100, 150, 200 Microns

Ref.: 113/4 Range 5, 10, 15, 20 Microns

Ref.: 113/5 Range 100, 200,300,400 Microns



Box Type Film Applicator

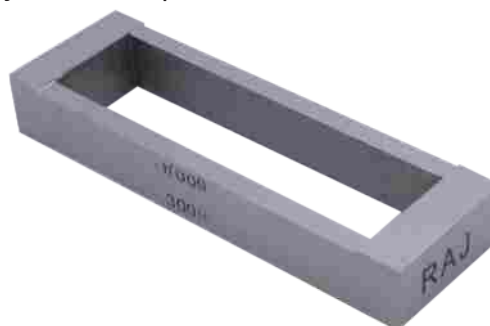
Block Applicator made from Stainless Steel for special type of Paint, Ink Coating. To provide four Film thickness from one gauge. Select suitable Film thickness and apply on the sample.

Length 4"

Range : 100, 200, 300, 400 microns

Range : 300, 400, 500, 600 microns

Ref. 153



Sag Index Applicator

To determine the level of Wet Film Thickness of Paint Film Sag Index is using. Seven pairs of gaps for leveling assessment. Providing parallel coating tracks on the sample.

Ref.: 111 / 1 Range : 25, 50, 75, 100, 125, 150, 175, 200 microns

Ref.: 111 / 2 Range : 200,400,600,800,1000,1200,1600,1800,2000 microns

Ref.: 111 / 3 Range : 100,200,400,600,800,1000 microns

Ref.: 111 / 4 Range : 200,400,600,800,1000,1200,1400 microns



Adjustable Film Applicator

Film Thickness can be adjusted in 10 micron steps from 0 to 10 mm with help of two Mitutoyo Japanese micrometer screws. Made from Aluminium and Stainless Steel with blade applicator.

Suitable for high viscous, and thick fluid on Flat Surface.

Range : 0 - 10 mm
0 - 10,000 micron

Film Width : 80 mm

Ref.: 150



Cube Applicator

Small Applicator suitable for parallel strips or films. Made from Stainless Steel with two gap sizes.

Range : 37, 75 microns

Ref.: 155



Wire Bar Coater

Wire wound rods provided an economical ways to assure the uniformity of thickness of very thin films.

Bar and wire manufactured of stainless steel perfect for very thin films, e.g. foil and paper, coating test ideal for flexible materials such as paper, cardboard, test charts, foils leathers, textiles etc.

Maximum attainable wet film thickness engraved on bar end. Rubber or Glass bed for better accuracy.

Wet Film Thickness : 4, 10, 15, 25, 40, 50, 70, 80, 100, 150 microns.
Film Width : 12 or 22 cms.
Impression Pad : Small 8.25" x 5"
Rubber on Top : Large 12" x 8"
Pad with Glass Plate : Medium 10" x 8"
on Top

Ref.: 115



Abrasion Tester

The Abrasion Tester is used to test a wide spectrum of materials; the instrument has been referenced in numerous standards and specifications (including plastics, coatings, laminates, leather, paper, ceramics, carpeting, safety glazing, etc.). Two genuine abrasive wheels, which are applied at a specific pressure, are lowered onto the specimen surface. Characteristic rub-wear action is produced by contact of the test specimen against the sliding rotation of the two abrading wheels.

Consist of :

- Auxiliary Weight 250 gms. Load (Each Arm)
- Calibraes wheel set (CS - 10)
- Vacuum Unit with suction Hose

Optional :

- Counter Weight 50 and 125 gms
- S-42 Sandpaper Strips Taber USA Make

Ref.: 137



Wet Abrasion Scrub Tester

Wet abrasion scrub tester, is mainly intended for the determination of the washing and scrubbing resistance as well as cleanability of dispersion paints (Specifically "wall paints").

Technical Data

- Stroke rate : 38 ± 2 cycle/min
- Stroke Length : 300 ± 5 mm
- Four digit preset
- Dimensions (W x D x H) : (450x350x230) mm
- Power supply : 230 VAC

Accessories

- One nylon brush and one sponge brush
- 500 ml washing agent
- Peristaltic Pump
- PVC foil, black, fine matt finish size (435x165) mm
- Glass panel

Ref.: 136



Digital Hot Air Oven

- Inner Chamber made of S.S. and Outer made of Mild Steel duly powder coating.
- Gap between the walls filled with glass wool or puf insulation.
- Heating elements are made of high grade chrome plated nichrome wire.
- Temp. Range : 50°C to 250°C
- Accuracy : $\pm 1 - 2^\circ\text{C}$

Accessories :

- Air Circulation Fan for Uniform Temperature.
- Digital PID Temp. Indicator cum Controller.
- Digital Timer
- Better Accuracy - Memmert Model.
- Temp. Range : Up to 250°C / 300°C / 400°C

Chamber Size

Ref.: 701 / 1	14" X 14" X 14"
Ref.: 701 / 2	18" X 18" X 18"
Ref.: 701 / 3	18" X 18" X 24"
Ref.: 701 / 4	24" X 24" X 24"
Ref.: 701 / 5	24" X 24" X 36"



Digital Muffle Furnace

- Useful for Ashing, Igniting and heat treating of small parts in chemical, industrial fields.
- Outer body made up of heavy gauge M.S./G.I duly powder coated. Inner muffle with high temp. insulating material.
- Maximum Temp. 1000°C / 1200°C
Working temp 930°C / 1130°C
- Temperature Controlled by Digital PID Temp. Controller cum Indicator.
- Heating elements are made of kenthal wire.

	Size	TEMP. (1000°C)	TEMP. (1200°C)
Ref.: 705/1	9" X 4" X 4"	1500 w	2000 w
Ref.: 705/2	10" X 5" X 5"	2000 w	2500 w
Ref.: 705/3	12" X 6" X 6"	3300 w	3500 w
Ref.: 705/4	18" X 9" X 9"	6000 w	7000 w



Humidity Cabinet

- Double walled, Interior made of stainless Steel exterior made of mild steel duly powder coated.
- Two Stainless steel removable trays.
- Digital temp. cum humidity controller.
- Forced air circulation for uniform temp. In case of cooling models by Hermetically sealed compressor provided.
- Temperature Range : 5° C above ambient to 60° C
10° C to 60° C
- Humidity Range : 40% to 95% RH
- Temperature Accuracy : $\pm 1^{\circ}$ C
- Humidity Accuracy : $\pm 3\%$ RH
- Direct RH Controller.
- RH Sensor Range 40 to 100% for Direct RH Controller
- Suitable voltage stabilizer



Capacity (Ltrs.) Inner Chamber size (cm)

Ref.: 444/1	91	45 x 45 x 45
Ref.: 444/2	175	70 x 50 x 50
Ref.: 444/3	288	90 x 55 x 55
Ref.: 444/4	342	90 x 60 x 60
Ref.: 444/5	441	90 x 70 x 70

Paint Corrosion Cabinet

Outer body made up of Mild Steel with powder coated inner chamber made of Stainless Steel, Heater and Fan provided as per IS standard Acrylic Trays for keeping panel. Cycle of the unit from 42°C to 48°C & from 48°C to 42°C in 45 to 75 minutes to test colour coated panels.

Control panel consists of Main Switch along with Digital Temp. Controller with fine setting & PT-100 sensor built in a box fixed on the top of the chamber. Low Water Indicator with Buzzer.

Sizes :

Ref.: 710 / 1	Suitable for 8 test panels
Ref.: 710 / 2	Suitable for 16 test panels
Ref.: 710 / 3	Suitable for 24 test panels
Ref.: 710 / 4	Suitable for 48 test panels



Constant Water Bath

- Inner chamber and lid made of stainless steel.
- Outer chamber made of mild steel with powder coating or stainless steel.
- The gap between the chamber filled with high grade glass wool to minimise the heat loss.
- For uniform heating high speed stirrer is provided.
- Microprocessor PID temperature controller cum indicator with timer.
- Temp. range ambient to 99.9°C
- Accuracy : $\pm 1^\circ\text{C}$

Ref.: 407



Low Temperature Water Baths

- For Cooling hermetically sealed compressor provided for cooling.
 - Inner chamber and lid made of stainless steel.
 - Outer chamber made of mild steel with powder coating or stainless steel.
 - The gap between the chamber filled with high grade glass wool to minimize the heat loss.
 - For Uniform heating high speed stirrer is provided.
 - Microprocessor PID temperature controller cum indicator with timer.
 - Table top and floor model both are available.
-
- Accuracy : $\pm 1^\circ\text{C}$
 - Temp. Range : 0°C to 50°C
 -20°C to 50°C
 -40°C to 50°C

Ref : 406



Oil Bath

Double walled, outer made of mild Steel duly powder coated Inner tank made of Stainless Steel. The bath is provided with two heaters of 1 K. W. each rating. Thermo Regulator is provided for temperature control. A powerful induction motor drives the centrifugal pump.

Temperature 5°C above ambient to 200°C .

Microprocessor PID temperature controller cum indicator with timer.

Working Size : 12" x 12" x 8" (L x W x H)

Capacity : 17 Ltr.

Ref.: 408



Hot Plate

Round

Made of cast iron top and body is of thick Mild steel painted attractively.

Thermostatic control Top M.S. / Cast Iron Plate

Size	Rating
8" Dia	1.5 K.W
9" Dia	1.6 K.W
12" Dia	2.0 K.W

Rectangular

Body made of thick Mild steel Painted attractively.

The thick iron plate is provided on top.

Thermostatic control Top M.S. / Cast Iron Plate

Size	Rating
10" x 12"	1.5 K.W.
10" x 16"	1.5 K.W.
12" x 18"	2.0 K.W.
18" x 24"	3.0 K.W.



Ref. 654

Heating Mantle With Regulator

Heating mantle are made to accommodate several size of round bottle flask and to provide uniform heating.

Maximum Surface temperature. 450°C with energy regulator box built in.

Size	Size
100 ml	3 Ltr
250 ml	5 Ltr
500 ml	10 Ltr
1 Ltr	20 Ltr
2 Ltr	50 Ltr



Ref.: 656

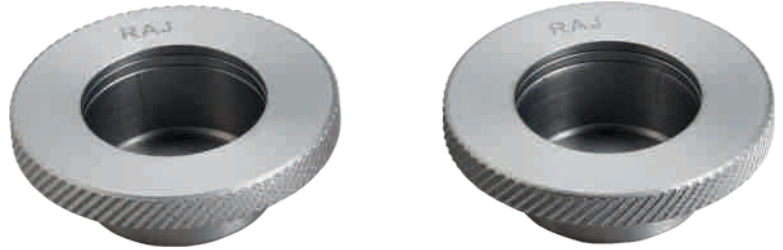
Payne Permeability Cup

To determine the permeability of film of paints, Varnish etc. Film is gripped between a ring fitted with a seal and the cup which a quantity of water.

Then placed into a dessicator at 38°C. Periodic weighing every 24 hrs. indicates the loss of water that has permeated through the film.

Standard : ASTM D 1653, ISO 7783

Ref.: 402 Payne Cup 25 cm²



Gel Time Apparatus

- The Gel Time is designed to know in which time the powder or granules turns into Gel and on which Deg Centigrade does it turns in to gel suitable for powder plastic granules, cosmetics, etc.
- Full body structure made from non - corrosive material. Top Plate provided with the sensor.
- The apparatus will be consist of Heating plate with long lasting heating coils, temperature controller along with the timer.
- Gelification Time App. With Digital display Temperature Indicator cum Controller as well as Digital Timer.



Specifications : -

Temperature Range : Ambient to 300°C
Resolution : 1°C
Surface Temp. with : ± 1 - 2°C
in Uniformity
Size of Plate : 200 x 200 x 35mm (Plate Thickness)

Ref.: 401

ASTM Solvent Distillation Apparatus

The sample evaporated and condensed under controlled conditions and observations are made of the temperature at various percentage are recovered .

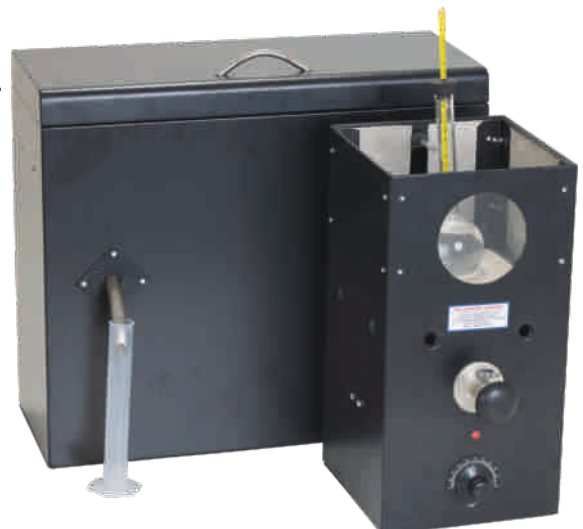
Electrically operated single test unit supplied with water bath, measuring cylinder, round bottom flask and Thermometer 10 °C to 360 °C

Standard : IS 1448 (P-18) IP123 ASTM D 86

Accessories :

Thermometer
Flask as per IP Standards
Heating Coil
Ceramic Board with hole (Asbestos plate)
Measuring cylinders 100 ml
Silicon cork

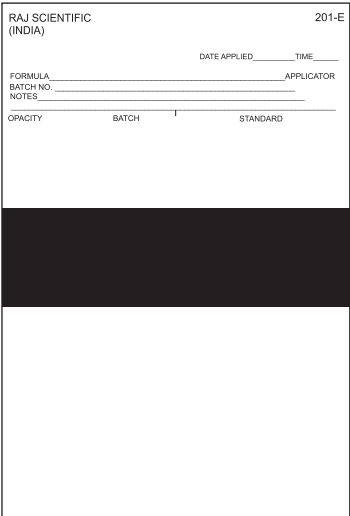
Ref.: 778



Draw Down

To determine the spreading rate at a specified level of dry film.
The basic procedure is to apply a uniform film on a suitable test substrate. To observe visually or photometrically its spreading rate.

- Cat No. : 201 - A - Glossy
- : 301 - A - Matt
- Size App : 6" x 4"
- Cat No. : 201 - E - Glossy
- : 301 - E - Matt
- Size App : 10" x 6"
- Cat No. : 201 - G - Glossy
- : 301 - G - Matt
- Size App : 10" x 8"



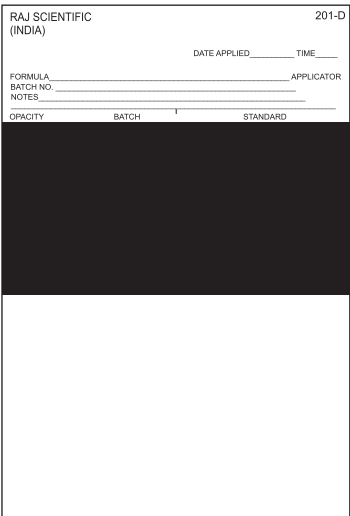
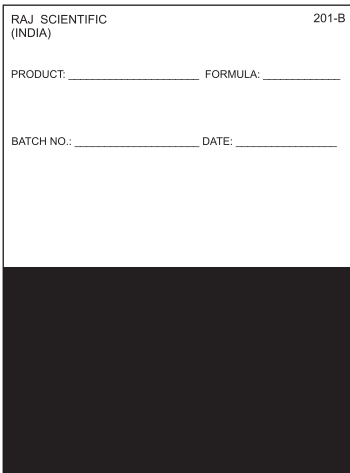
Opacity Chart

Black at Bottom

- Cat No. : 201 - B - Glossy
- : 301 - B - Matt
- Size App : 6" x 4"

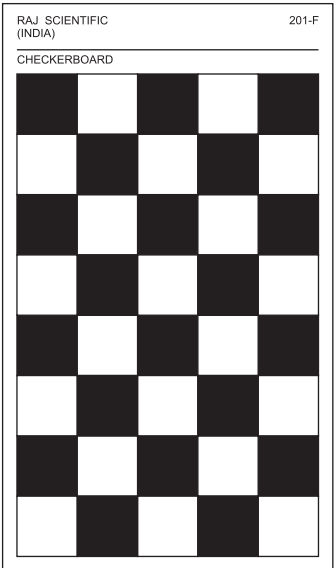
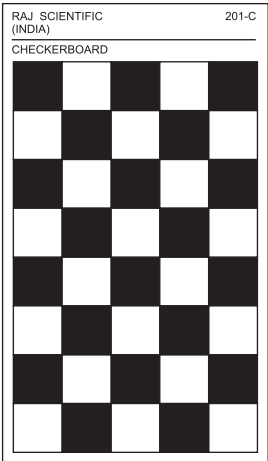
Black at Top

- Cat No. : 201 - D - Glossy
- : 301 - D - Matt
- Size App : 10" x 6"



Checker Board

- Cat No. : 201 - C - Glossy
- : 301 - C - Matt
- Size App : 10" x 6"
- Cat No. : 201 - F - Glossy
- : 301 - F - Matt
- Size App : 10" x 8"



Plain Charts

Cat. No. 210
Size App. 10" x 6"

Cat. No. 211
Size App. 10" x 4" Glossy

Checker Stickers

Pkt of 500 Nos.
Cat. No. 212

SCRUB TEST

Imported Black Plastic Scrub Test Panels
Smooth Matte Surface

Size : 165 x 432 mm
Cat. No. 213

IS Shade Card

It covers 104 colours for ready mixed paints enamels like blue, green, yellow, cream and buff, brown and pink, red, orange, gray and violet
Indian standard IS 5

Ref.: 338



Ral Shade Card

Colours are useful for identification classification and comparisons.
Colour Fan Deck with 213 Shades in the form of different sizes

RAL K-1 Sizes of shades 0.75" x 1.25"
Glossy

RAL K-5 Sizes of shades 6" x 2"
Glossy & Semi Glossy

RAL K-7 Sizes of shades 1" x 1.25"
Glossy



Ref.: 339

Pantone Shade Card

Pantone provides an accurate method for selection, specification, entire colour 1341 solids shades arranged in order.
Available in solid uncoated an solid coated.
Each color identification by unique Pantone name and number.



Ref.: 340

SPATULA

- Flexible Spatula Made of Stainless Steel with Wooden Handle
- Knife Pattern Size 4"
6"
8"
10"
12"

Ref. : 713



SPATULA

- Flexible Spatula Made of Stainless Steel with Wooden Handle
- Push Knife Size 2"
3"
4"
5"

Ref. : 714



SPATULA

- Flexible Spatula Made of Stainless Steel with Plastic Handle
- Taper Palette Size 3"
4"
5"
6"

Ref. : 715



SPATULA

- Made of fully S.S.
- Size 6"
8"
12"

Ref. : 716



Digital Surface Profile Gauge

Digital Surface Gauge is a battery operated model, which measures peak to valley height of a surface. Average reading of measurement provides an indication of the surface roughness.

Features

- Simple and low cost.
- Range : 0 - 1 mm
- Range : 0 - 10 mm
- Resolution : 1 micron (0.001 mm)

Standard : ASTM D 4417 - B

Ref.: 404 / 1 : Range : 1 mm

Ref.: 404 / 2 : Range : 10 mm



Film Thickness Gauge

To measure thickness of film, Paper, Foil, Metal sheets etc.

Range : 0 - 10 mm

Accuracy : 0.01 mm (10 Microns)

Ref.: 405 / 1

Range : 0 - 1 mm

Accuracy : 0.001 mm (1 Microns)

Ref.: 405 / 2

Optional : Digital Model



Colour Comparator

Comparator for visual colour grading sample is matched in a daylight illuminating unit against glass standard built in test discs.

Colour comparator with two nos. Gardner Discs (1 to 18 colours)

Electrically operated model also available for better illumination.

Lovibond UK make colour comparator with two nos. cells

Spare :

Gardner disc A or B

ASTM disc A or B

Gardner Empty Tubes

Ref.: 779



Digital Temperature Indicator

Imported Make

Battery operated with 12" long probe & One metre wire

Range : - 50° C to 1300° C

- Temperature Sensor Leaf type
- Temperature Sensor Rod type
- Temperature Sensor Bead type

Ref.: 601



Magnetic Thermometer

Imported UK made

Surface Temperature Display on magnetic surface
Dial Type

Range : 0 - 120°C

Range : 32 - 250°F

Ref.: 602



Infrared Thermometer

- Model : MT - 4
Raytek Make
Range : - 18°C to 400°C
Accuracy : $\pm 2^{\circ}\text{C}$ or $\pm 2\%$
Distance/spot Ratio : 8:1
- Model : MT - 5
Range : - 50°C to 550°C
Accuracy : $\pm 1.5^{\circ}\text{C}$ or $\pm 1.5\%$
Resolution : 0.1°C
Distance/spot Ratio : 12:1
- Model : MT - 10
Range : - 50°C to 1150°C
Accuracy : $> \pm 1.5\%$ or $\pm 1.5^{\circ}\text{C}$
Repeatability : $\pm 1\%$ or $\pm 1^{\circ}\text{C}$
Distance/spot Ratio : 20:1
- Model : MT - 15
Range : 200 to 1650°C
Accuracy : $> \pm 1.5\%$ or $\pm 1.5^{\circ}\text{C}$
Repeatability : $\pm 1\%$ or $\pm 1^{\circ}\text{C}$
Distance/spot Ratio : 50:1



Ref.: 603

Digital Moisture Meter

a) ETI U.K. make

Moisture meter designed specifically for building professionals to check the moisture content in a variety of construction materials LED bar graph within the keypad which displays current moisture levels, green for 'OK' amber for 'WARNING' or red for 'DAMP'. The instrument incorporates a large, easy to read, LCD display with low battery indication. Moisture meter is supplied in a handy-sized, protective zip wallet complete with two-pin probe and one meter PVC lead and BNC connector,

Specification :

Range :	Moisture Content	Wet basis percentage
	Scale 1 (Wood 1)	6.0 to 40.0 %
	Scale 2 (Wood 2)	8.0 to 40.0 %
	Scale 3 (Wood 3)	'0.1 to 15.0 %
	Scale 4 (Concrete)	'0.5 to 12.0 %
	Scale 5 (Linear)	'0 to 1000 (Reference Scale)

Resolution	: 0.1% or 1 (Linear Scale)
Accuracy	: $\pm 1\%$ of Moisture Content
Display	: 12 mm LCD

Model : ETI 7000

Ref.:- 621



Digital Moisture Meter

Suitable for both wood and building moisture
Range 5% to 40%
Resolution 1 %
Accuracy $\pm 1\%$

Ref.:- 620



Thermo-hygrometer

Digital dual LCD display each shows humidity and temperature. Memory for highest and lowest temperature and humidity, Two Key operation for Max/Min & Reset. Timer with alarm facility. Features for wall hanging and table top standing purposes.

Temperature Range : -10°C to 50°C ,
Humidity Range : 25% to 95% RH,

Ref. 720



Magnifier

- Complete with battery.
- Magnification 8x / 30x with artificial illumination.
- Magnifier without illumination.

Ref.: 177



Abbe Refractometer

A simplified fast operating instrument for measuring refractive index and sugar percentage. The prism assembly is mounted in horizontal position.

For measuring refractive index and sugar percentage directly.

Range	:	Refractive Index	1.3 to 1.7 nD
	:	Sugar Percent	0 to 95%
Accuracy	:	Refractive Index	0.001 direct & 0.0001 estimate.
	:	Sugar percentage	10 on scale and 0.10 by estimate.

Ref.: 622



"Erma" Make Hand Refractometer

Hand Refractometer is kind of precision optical instrument.

Through to provide with a direct reading of the scales we can easily know the concentration or refractive index of liquids

- Easy and very convenient to use.
- High quality, accurate testing result

Range	:	0-32% Brix
	:	28-62% Brix
	:	45-82% Brix
	:	58-90% Brix
	:	58-92% Brix



Ref.: 624

Pen Type PH Meter

Imported make

Specification :

- Range : 0 to 14
- Resolution : 0.1 pH
- Accuracy : ± 0.2 pH
- Calibration : Digital Automatic Calibration (One Point)
- Electrode : Glass Sensor and reference tube Electrodes
- Housing : Water resistant

Auto-off function, data - hold function and low - battery indicator.

Ref.: 170 / 1



Conductivity Meter

Imported make

Specification :

EC Range : 0-9999 μ S
Temp. Range : 0 - 80°C, 32 - 176° F
Resolution : 1 μ S
Accuracy : +/- 0.2 %
Calibration : Digital Calibration by push button

Feature

Measures electrical conductivity (EC) and Temperature
Automatic Temperature Compensation (ATC)
Water - resistant housing
Digital Calibration (Push button)
Auto-off function, data - hold function and low battery indicator.

Ref. 171



Digital Ph Meter

Model : pHCal

Specification :

Range : 0 to 14 pH

Resolution : 0.01 pH

Accuracy : 0.01 pH \pm 1 digit

ATC : Manual

Supplied with complete Standard Accessories.
pH electrode, PH4, PH7 Standard solution (Buffer),
Electrode stand and manual.

Ref : 170



Test Sieves

The Frame is made out of Brass and without any joint in it.
Uniform fabrication of test sieves permit easy and smooth-nesting
on each others.

Test sieves is the mesh should be flat, uniform and with
permanent tension round the whole circumference.

Brass Frame with S.S. wire mesh diameter 8"

Mesh (B.S.S 410 - 1969)	Aperture Micron	Mesh (B.S.S 410 - 1969)	Aperture Micron
4	4750	72	210
5	3350	85	180
6	2800	100	150
7	2400	120	125
8	2000	150	106
10	1680	170	90
12	1400	200	75
14	1200	240	63
16	1000	300	53
18	850	350	45
22	710	400	38
25	600	500	25
30	500	600	20
36	425	700	15
44	355	800	10
52	300	1000	5
60	250		



Ref.: 660

Abel Flash Point Apparatus

For determination of flash point of petroleum products and mixture. The apparatus consists of one brass cup fitted with test flame arrangement. Stirrer placed in brass cup for uniform temperature. The outer jacket of the water bath is fitted with a stand. For electricity heated apparatus a 500 Watt heater is fitted to the stand which can be controlled by an energy regulator. Suitable for Petroleum and Petroleum Products having Flash point below 70°C.

Optional Accessories :
 Oil Cup Thermometer : (- 35 to 70°C) IP - 74°C.
 Water bath Thermometer : (- 30 to 80°C) IP - 75°C.

Standard : IP 33, 170 & IS 1448 (P-20)

Ref. :- 510



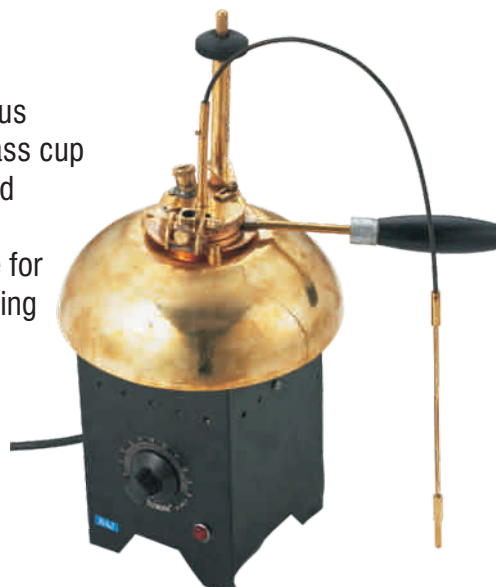
Pensky Marten Flash Point Tester Closed Type

For determination of flash point of petroleum products The apparatus consists of cast iron stove fitted with a polished brass cover, a brass cup with cover which contains the test flame arrangement, stirrer (hand operated) and heating arrangement. For electricity heated model a rectangular heater with an energy regulator fitted in a box. Suitable for Fuel oils and Lubricating oil, bitumen except cut back bitumen having Flash Point from 50°C to 250°C.

Optional Accessories :
 Thermometer IP - 15°C. Range : (-5°C to 110°C)
 Thermometer IP - 16°C. Range : (90°C to 370°C)

Standard : IP 34, ASTM D 93, IS 1448 (P-21)

Ref.:- 515



Cleveland Open Flash Point & Fire Point Apparatus

Used for determination of open flash point and fire point of petroleum products except when the Cleveland apparatus is specified. The same apparatus as above is used. Only the cup cover is replaced by an open clip. Suitable for Temperature Range : 80°C to 350°C

Spares

- Cup fitting with handle
- Cup cover with test flame and shutter mechanism.
- Thermometers
- IP 16°C
- IP 15°C
- Heat Element

Standard : IP 36 IS 1448 (P-69) ASTM D 92

Ref : 520



AUTOMATIC DIGITAL PIGMENT MULLER

Pigment Muller is the basic machine to test pigment for its properties like, strength and tone. In this equipment, pigment wetted with linseed oil of proper viscosity is given measured grinding between two roughened glass plates. Standard and sample ground in the same conditions are taken out and after taking draw down, results are compared. It is also possible to determine complete dispensability curve of a single pigment.

- (Pressure by spring loaded cartridge)
- Stainless Steel body
- Measured amount of pressure can be given
- Non - contact type electronic digital counter
- Electronic digital counter
- Grinding glass diameter - 185 mm.
- Electricals : 0.5 HP single phase 220 volts, 50 Hz
- Pigment Spare Spatula for Mixing Pigment

Ref. 780



(A) Testing Instrument For Paint, Printing Ink, Powder Coating, Adhesive, Resin, Thinner, Pigment, Varnish

1	Abel Flash Point Apparatus
2	Abrasion Tester (Wet & Dry)
3	Adhesion Tester
4	Abbe Refractometer
5	Bend Tester
6	Brookfield Viscometer
7	Centrifuge Machine
8	Checker Board
9	Colour Comparators
10	Colour Tintometer
11	Colour Matching Cabinet
12	Conical Mandrel Tester
13	Cross Hatch Cutter
14	Cupping Test. App.
15	Conductivity Meter
16	Dupont Impact Tester
17	Dean & Stark Tester
18	Distillation App.
19	Film Applicators
20	Fineness of Grind Gauges
21	Flow Cups - BS/ASTM/ISO/IS
22	Flexo Lab Printer
23	Falling Weight Impact Tester
24	Gloss Meter
25	Hegman Gauge
26	Hiding Power Chart
27	Humidity Cabinet
28	Hand Inking Roll
29	Infra Red Thermometer
30	Ink Proofing Kit
31	Impact Tester

32	Kinematic Viscometer Bath
33	Melting Point App.
34	Muffle Furnace
35	Opacity Chart
36	PH Meter
37	Pantone Shade Card
38	Penetrometer
39	Permeability - Payne Cups
40	Pigment Muller
41	Paint Corrosion Cabinet
42	Pencil Hardness Tester
43	RAL Shade Card
44	Red Devil Paint Shaker
45	Ring & Ball App.
46	Stromer Viscometer
47	Sag Index Applicator
48	Salt Spray Chamber
49	Surface Profile Gauges
50	Scatch Hardness Tester
51	Specific Gravity Cups
52	Tubular Impact Tester
53	Titration App.
54	Test Sieves
55	Taber Abraser
56	Thickness Gauges (Dry Film)
57	Viscometer
58	Wire Bar Coater
59	Wire Tester
60	Wet Film Thickness Gauge
61	Weight Per Litre Cup
62	Zahn Cup

(B) Testing Instrument For Oil, Petroleum, Grease, Bitumen, Wax, Tar, Etc.

1	Abel Flash Point App.
2	ASTM Colour Comparator /Discs
3	Cleave Land Fire & Flash Pt. App.
4	Constant Temp Bath
5	Conductivity Meter
6	Dean & Stark App.
7	Distillation Range App.
8	Drop Point App.
9	Kinematic Viscometer Bath

10	Kari Fischer Titration App.
11	Pensky Marten Flash Pt. App.
12	PH Meter
13	Penetrometer
14	Potentiometric Titration App.
15	Ring & Ball App.
16	TDS Meter
17	Turbidity Meter
18	Zahn Viscometer

(C) Analytical Testing / Electronic Measuring Instruments

1	Analytical Precision Weighing Balance
2	Anemometer
3	Blood Bank Refrigerator
4	Brookfield Viscometer
5	Colour Comparator/ Colour Discs
6	Colour Tintometer
7	Conductivity Meter
8	Cylic Hot & Cold Chamber
9	Climate Chamber
10	Dissolved Oxygen Meter
11	Digital Thermometer
12	Deep Freezer
13	Flame Photometer

14	Humidity Meter
15	Infra Red Thermometer
16	Lux Meter
17	Moisture Balance
18	Melting Point Apparatus
19	PH Meter
20	Refractometer
21	RPM Meter
22	Sound Level Meter
23	Surface Roughness Meter
24	TDS Meter
25	Tachometer / Stroboscope
26	Turbidity Meter

(D) Water / Pollution Instrument / Rubber / Plastic Testing Instruments

1	IRHD Rubber Hardness Tester
2	Metal Hardness Tester
3	Moisture Balance
4	Nephelometer
5	Shore Hardness Tester

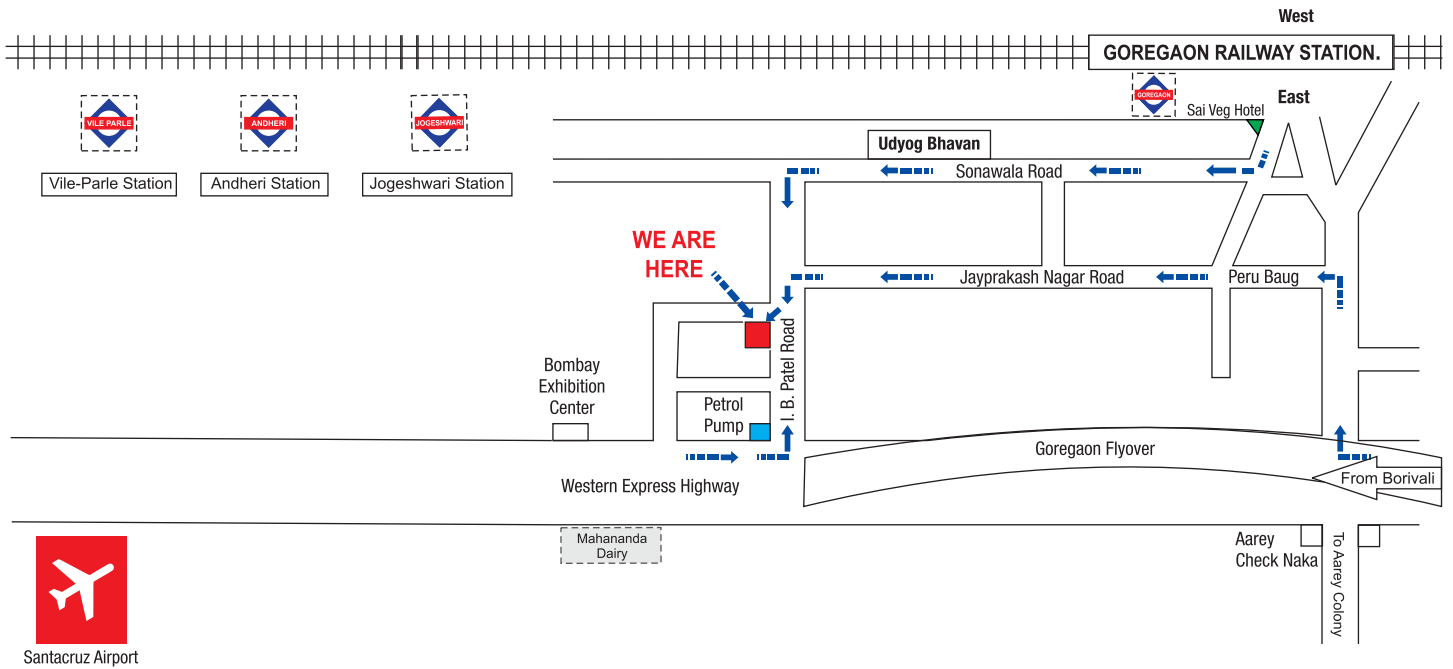
6	Surface Treatment (Corona) Tester
7	Turbidity Meter
8	Thermometer
9	TDS Meter

(D) Water / Pollution Instrument / Rubber / Plastic Testing Instruments

1	Bunsen Burner
2	B.O.D. Incubator
3	Bacteriological Incubator
4	Constant Temp. Water Bath
5	Cryostat
6	Enviromental test Chamber
7	Heating Mantles
8	Hot Air Oven
9	Hot Plates
10	Humidity Oven

11	Low Temperature Bath
12	Muffle Furnace
13	Melting Point App.
14	Oil Bath
15	Soxhelt Extraction App.
16	Viscometer Bath
17	Vacuum Dessicator
18	Water Still
19	Water Bath

Reach Us





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