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. 5.0 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. 3.0 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

Wedge Bend Tester is used for measuring hardness and adhesion of painted surface from cracks and removal of paint film.

This equipment is used to access a resistance to such impact.

A Coated panel is subjected to shock deformation of paint film for cracks and removal by a fixed weight.

Wedge Block is situated at the central part of the base which is having a taper surface on the top.

Dimension - 140 x 40 x 40 mm
Dimension - Indenter : 125 x 39 x 56 mm (L x W x H)
Weight : 2300 gm ± 100 gm
Height : 27"
Suitable Panel Size - 150 x 50 mm

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 : ASTMD 937, ASTMD 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.

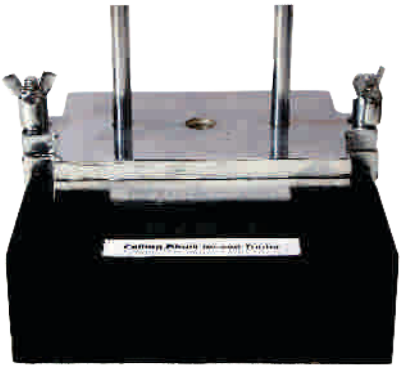
FALLING BLOCK IMPACT TESTER

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
Indentor 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 indentor
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