



CROSS HATCH TESTER

CODE: 10025



As Per ASTM D 3359, BS / DIN / ISO - 2409

The Cross hatch tester is widely used to access adhesion of coating materials like paint, powder coatings, etc.,

“CI” Cross Hatch Tester is a hardened single cutting block as per international standards with 4 cutting edges, fixed to a comfortable die cast aluminium handle. Supplied Complete in deluxe wooden box.

SPECIFICATIONS

BODY MADE OF	: DIE CAST ALUMINIUM
OVERALL LENGTH	: 125 mm LONG
OVERALL WIDTH	: 30 mm approx.
BOX DIMENSION	: 170mmx130mmx60mm
OVERALL WEIGHT	: 650gms. (approx)

Spacing 1mm with 11 cutting blades, Coating upto 50 microns.

Spacing 2mm with 06 cutting blades, Coating 50-120 microns

Spacing 3mm with 04 cutting blades, Coating 120-300 microns

Calibration Certificate to NPL standards

3M Masking tape.

Masking tape.

Magnifying lens

Cleaning Brush

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:10025-02

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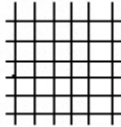
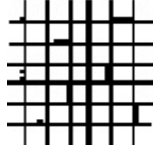
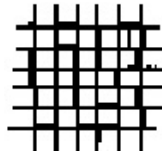
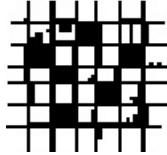
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CLASSIFICATION OF ADHESION TEST RESULTS TABLE

DESCRIPTION	SURFACE	ISO	ASTM
The edges of the cuts are completely smooth, none of the squares of the lattice is detached.	None	0	5B
Detachment of small flakes of the coating at the intersections of the cuts. A cross-cut of not greater than 5% is affected.		1	4B
The coating has flaked along the edges and /or at the intersection of the cuts. A cross-cut area significantly greater than 5% but not significantly greater than 15% is affected.		2	3B
The coating has flaked along the edges of the cuts partly or fully in a large ribbons, and /or it has flaked partly or wholly on different parts of the squares. A cross-cut area significantly greater than 15%, but not greater than 35%, is affected on different parts of the square.		3	2B
The coating has flaked along the edges of the cuts in large ribbons and / or some squares have detached partly / wholly. A Cross-cut area significantly greater than 35% but not greater than 65%, is affected.		4	1B
Any degree of flaking that cannot be classified by classification 4.	Greater than 65%	5	0B

OPERATING INSTRUCTION

Make a series of parallel cuts 20-25mm long and a second series at right angles to the first, to obtain a lattice pattern with either 11/6/4 cuts. The tester should be moved in one steady motion using just enough pressure on the block to cut through to the substrate. Make sure that the correct cutter block is used in accordance to coating thickness. After cuts, use soft brush to remove any detached flakes or ribbons of coatings. Apply pressure sensitive adhesive tape over the lattice and then remove in one go. Inspect using the magnifying lens & evaluate the adhesion as per scale above.

DESIGNED & MANUFACTURED BY:



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