

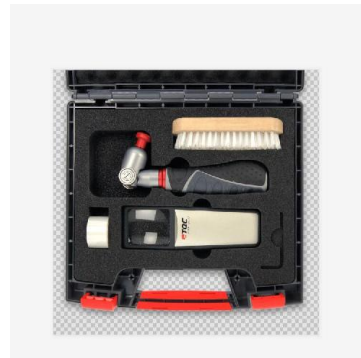
Machine Name : Multi-grid adhesion tester

Brand : TQC Sheen

Machine Model : CC3000

Stock No. : 89578

Ex-factory Date : 2025



Main Technical Parameters:

Standard: ISO 2409/ASTM D3359

adjustable cutting depth:

Maximum measurable coating thickness: approximately 250 μm

Overall Footage: 32 * 190 * 42mm

Weight: 352g

Blade head/Number of teeth/tooth spacing: (optional)

-SP1680:6 teeth, spacing 1 mm (ISO)

-SP1681:6 teeth, spacing 2 mm

-SP1682:6 teeth, spacing 3 mm

-SP1683:11 teeth, spacing 1 mm (ASTM)

-SP1684:11 teeth, spacing 1.5 mm (ASTM)

Box configuration

Carrying box

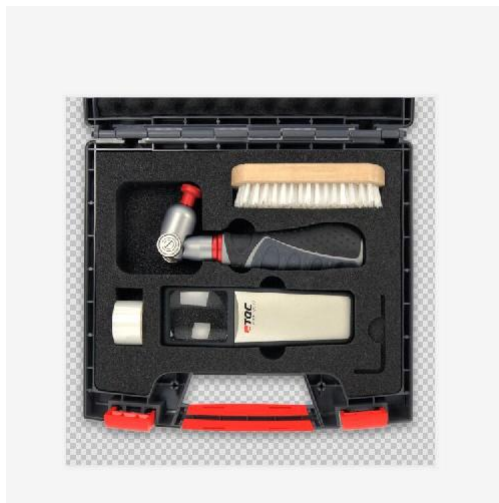
CC1000 Tool holder (without blade)

Nylon brush

Illumination magnifying glass

Adhesive tape with an adhesion force of 4.3 N/cm

4mm Allen wrench



PRODUCT DESCRIPTION

The TQC Cross Cut Adhesion Test KIT (CC3000) is used to test the adhesion of dry coats of paint on their substrate by means of a series of cuts through the coating. Two series of parallel cuts cross angled to each other to obtain a pattern of 75 or 100 similar squares. The ruled area is evaluated by using a table chart after a short treatment with a stiff brush, or adhesive tape for hard substrates.

BUSINESS

Protective coatings, Corrosion Control, Coating Laboratories, Paint Production, Surface Finishing, Powder Coatings, Decorative Coatings, Building Maintenance

STANDARDS

ISO 2409, ASTM D3359

FEATURES

- The blade holder is kept at a set distance from the surface with the aid of two wheels (ball bearings). Reproducible test results guaranteed.
- Ergonomically shaped handle
- Easy to change cutting knife
- Wide range of knife sizes available for different coating thicknesses and substrates and according to different standards.

SCOPE OF SUPPLY

- Soft grip handle
- Hardened steel cutter (type may vary, see below schedule)
- Nylon brush
- Illuminated magnifier
- Adhesive tape (adhesion to steel 4.3N/cm) and one 2 mm
- Allen key



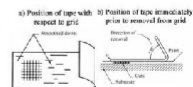
Adhesive	SP1700	SP1701	SP1702	SP1703	SP1704	SP1705
Blades	5	5	5	11	11	No blade, set only
Teeth distance	3mm / 0.039 in	2mm / 0.079 in	3mm / 0.12 in	1mm / 0.039 in	1.5mm / 0.059 in	
Acc. To	ISO 2409 D3359	ASTM D3359	ISO 2409 D3359	ASTM D3359	ASTM D3359	
Coating thickness on hard substrates	0-60µm / 0-2 mils	6-120µm / 2-4.8 mils	50-125µm / 2-4.9 mils	125-250µm / 5-10 mils	25-125µm / 1-5 mils	
Coating thickness on soft substrates	-	0-60µm / 0-2 mils				
Spare knives	SP1702	SP1703	SP1704	SP1705	SP1706	

ACCESSORIES

SP3007 - Adhesion tape, single roll, adhesion to steel 4.3 N/cm
 SP3010 - Adhesion tape, set of 3 rolls, adhesion to steel 4.3 N/cm
 SP1070 - Adhesion tape, single roll, adhesion to steel 7.6 N/cm
 SP1710 - Nylon Brush for Cross Cut Adhesion Test
 SP9700 - Illuminated Magnifier 2.5x
 SP1702 - Spare knife ISO + ASTM 1mm
 SP1703 - Spare knife ISO + ASTM 2mm
 SP1704 - Spare knife ISO 1mm
 SP1705 - Spare knife ASTM 1mm
 SP1706 - Spare knife ASTM 1.5mm

USE

- Make sure the surface to be tested is rigid and firm
- Make two cuts/scratches, perpendicular to each other, drawing the handle with the appropriate cutter (depending on coating thickness and substrate) through the coating into the substrate thus making the lattice pattern.
- Brush the pattern lightly with the supplied brush several times back and forth along each of the diagonal lines of the lattice pattern.
- For hard substrates only the test can be extended by applying the adhesive tape parallel to one set of cuts over the lattice pattern and pull it off steadily in 0.5 to 1 sec. at a 60° angle within 5 minutes after applying for ISO. For ASTM within 90s ± 30s at a 180° angle.
- Carefully examine the cut area, if required using the magnifier and classify the test.



Classification		Description	Appearance of surface of cross-cut area from which flaking has occurred (example for 6 parallel cut)
ISO	ASTM		
0	9B	The edges of the cross-cut are completely smooth; none of the squares of the cut is detached	
1	4B	Detachment of small flakes of the coating at the intersections of the cut. A cross-cut area not significantly greater than 5% is affected	
2	3B	The coating has flaked along the edges and/or at the intersections of the cut. A cross-cut area significantly greater than 5%, but not significantly greater than 15%, is affected	
3	2B	The coating has flaked along the edges of the cut partially or wholly in 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 significantly greater than 35%, is affected	
4	1B	The coating has flaked along the edges of the cut in large ribbons and/or some squares have detached partly or wholly. A cross-cut area significantly greater than 35%, but not significantly greater than 65%, is affected	
5	0B	Any degree of flaking that cannot even be classified by classification 4	

SPECIAL CARE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over.
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Always keep the instrument in its case when not in use.

SAFETY PRECAUTIONS

- A knife is a sharp object. Be careful when using it.