

Can be used in accordance with: ASTM D 3359-B, ASTM D 3002, BS 3900-E6, BS EN ISO 2409, DIN 53151, ISO 2409, NF T 30-038





Part Numbers

Simple but effective method for determining the adhesion of a large variety of coatings. The instrument is ideal for thin coatings on flat surfaces, available with three different spacings, corresponding to the thickness of layer to be tested:

- 1mm spacing for coating thickness less than 60µm
- 2mm spacing for coating thickness less than $120\mu m$
- 3mm spacing for coating thickness more than 120µm

Three instrument types are supplied separately or combined in a kit case with standardized brush and magnifier.

- Powerful cross cutter, with 8 cutting faces.
- Anodized aluminium handle, with a wheel for stable operation, ideal for test panels and thin coatings.
- Supplied with an adjustment gauge for accurate positioning of the cutter face.

Model	Description	
Elcometer 1542/1	Elcometer 1542 Cross Hatch Adhesion Tester 5 x 1mm	
Elcometer 1542/2	Elcometer 1542 Cross Hatch Adhesion Tester 5 x 2mm	l
Elcometer 1542/3	Elcometer 1542 Cross Hatch Adhesion Tester 5 x 3mm	
Elcometer 1542/4	Elcometer 1542 Cross Cut kit 5 x 1mm	l
Elcometer 1542/5	Elcometer 1542 Cross Cut kit 5 x 2mm	l
Elcometer 1542/6	Elcometer 1542 Cross Cut kit 5 x 3mm	l
Elcometer 1542/7	Elcometer 1542 Cross Cut kit 5 x 1,2,3mm	
Accessories	Elcometer 1546 6 x 1mm Cross Hatch Blade	
	Elcometer 1546 6 x 2mm Cross Hatch Blade	
	Elcometer 1546 6 x 3mm Cross Hatch Blade	
	Adjustment Gauge for Elcometer 1542	
	ASTM 03359 Adhesive Tape (2 rolls)	
	ISO 2409 Adhesive Tape (2 rolls)	
	Cross Cut DIN Brush	
	Cross Cut Magnifier	
	Model Elcometer 1542/1 Elcometer 1542/2 Elcometer 1542/3 Elcometer 1542/4 Elcometer 1542/5 Elcometer 1542/6 Elcometer 1542/7	ModelDescriptionElcometer 1542/1Elcometer 1542 Cross Hatch Adhesion Tester 5 x 1mmElcometer 1542/2Elcometer 1542 Cross Hatch Adhesion Tester 5 x 2mmElcometer 1542/3Elcometer 1542 Cross Hatch Adhesion Tester 5 x 3mmElcometer 1542/4Elcometer 1542 Cross Cut kit 5 x 1mmElcometer 1542/5Elcometer 1542 Cross Cut kit 5 x 2mmElcometer 1542/6Elcometer 1542 Cross Cut kit 5 x 3mmElcometer 1542/6Elcometer 1542 Cross Cut kit 5 x 3mmElcometer 1542/7Elcometer 1542 Cross Cut kit 5 x 1,2,3mmElcometer 1542/7Elcometer 1546 6 x 1mm Cross Hatch BladeElcometer 1546 6 x 2mm Cross Hatch BladeElcometer 1546 6 x 3mm Cross Hatch BladeElcometer 1546 6 x 3mm Cross Hatch BladeElcometer 1546 6 x 3mm Cross Hatch BladeElcometer 1546 7Stor 2409 Adhesive Tape (2 rolls)ISO 2409 Adhesive Tape (2 rolls)Cross Cut DIN Brush

Part Number

K0001542M001 K0001542M002 K0001542M203 K0001542M202 K0001542M203 K0001542M204 KT001542P001 KT001542P002 KT001542P003 KT001542P006 T1078894-T1079358-KT001542N201 KT001542N201

Cross Hatch Test Method - Elcometer 107 & Elcometer 1542

The cross hatch test is a method to determine a coating adhesion.

Having selected the appropriate cutter spacing - dependant on coating thickness (see technical specifications), make a cut of approximately 20 - 30mm long ensuring that enough force is used to cut all the way down to the substrate.

Make a similar length cut at a 90 degree angle with the first cut - again, ensure that the cut is all the way down to the substrate.

Brush the coating slightly with a soft brush or tissue to remove any detached flakes or ribbons of coating, then check the resulting cross-hatch pattern according to the Classification of Adhesion Test Results - as described in ISO or ASTM standards.

An adhesive tape, in accordance with ISO 2409 or ASTM D3359 can also be used prior to checking the result. Please refer to the appropriate standard. This tape is available from Elcometer.