

Elcometer 141 Paint Inspection Gauge



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The Elcometer 141 PIG is a quick, versatile method of examination and destructive measurement of coatings in a portable, easy to use instrument.

Ergonomically designed to give a balanced weight distribution for a consistent cut, it is ideal for tough coatings and enamels.

- Large easy grip handle - makes cutting thick or hard coatings easy
- Internal cutter storage compartment
- x50 magnification microscope

Can be used in accordance with
 AS 1580.108.2
 ASTM D 4138-A
 BS 3900-C5-5B
 DIN 50986
 ISO 2808-5B
 ISO 2808-6B
 NF T 30-123

Standards in grey have been superceded but are still recognised in some industries.

Coating Thickness Gauges - Destructive

Destructive thickness measurement is often the only guaranteed method available to test certain coating / substrate combinations including paint applied to concrete, wood, plaster, plastic etc.

When it is necessary to measure the individual layer thickness of multiple-layer coating system, the most accurate method available is the Paint inspection Gauge (P.I.G) coating thickness gauge.

TECHNICAL SPECIFICATION	
Scale Range	0 to 1.8mm (0 to 0.07")
Scale Resolution	0.02mm (0.001")
Dimensions (fitted to handle)	160 x 100 x 35mm (6.3 x 4 x 1.4")
Weight (fitted to handle)	510g (1lb 2oz)
Part Number	A141---D Elcometer 141 Paint Inspection Gauge
Packing List	Elcometer 141 P.I.G, x50 microscope, 3 cutters, marker pen, hexagonal wrench, carry case and operating instructions.

ACCESSORIES				
Part Number	Description	Cutting Angle	Measurement Range	Graticule Scale Factor
T99915761-1	Tungsten Carbide Cutter No 1	45°	20 - 2000µm (1 - 80mils)	20µm (1mil)
T99915761-4	Tungsten Carbide Cutter No 4	26.6°	10 - 1000µm (0.5 - 35mils)	10µm (0.5mil)
T99915761-6	Tungsten Carbide Cutter No 6	5.7°	2 - 200µm (0.1 - 8mils)	2µm (0.1mil)

Using the Paint Inspection Gauge



1. Take the coated product.



2. Using the supplier marker, draw a line across the coating.



3. Using the P.I.G., make a cut at right angles to the marker line, all the way down to the substrate



4. Use the supplied microscope to count the number of graticule divisions across a coating layer & calculate the thickness value using the graticule scale factor.

Related Products



Elcometer 121

Elcometer 121/4 Standard & Top Paint Inspection Gauges

Available in two models, the Elcometer 121 is designed to measure the thickness of single or multiple layers of coatings on virtually all substrate types including wood, plastic and metal.



Elcometer 195

Elcometer 195 Säberg Drill

Works differently to a Paint Inspection Gauge, the Elcometer 195 Säberg Drill makes a small hole in order to measure the coating thickness layer, minimising damage to the coating being tested.



Elcometer 107

Elcometer 107 Cross Hatch Adhesion Tester

Provides an instant assessment of the quality of the bond to the substrate. Due to its rugged construction this gauge is ideal for thin, thick or tough coatings on flat or curved surfaces. An ideal field or laboratory test.



Elcometer 1542

Elcometer 1542 Cross Hatch Cutter

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

ENGLAND

Elcometer Limited
Edge Lane
Manchester M43 6BU

Tel: +44 (0)161 371 6000
Fax: +44 (0)161 371 6010
e-mail: sales@elcometer.com
www.elcometer.com

USA

Elcometer Inc
1893 Rochester Industrial Drive
Rochester Hills Michigan 48309

Tel: +1 248 650 0500
Toll Free: 800 521 0635
Fax: +1 248 650 0501
e-mail: inc@elcometer.com
www.elcometer.com

ASIA & THE FAR EAST

Elcometer (Asia) Pte Ltd
896 Dunearn Rd
Sime Darby Centre #3-09
Singapore 589472,
Republic of Singapore

Tel: +65 6462 2822
Fax: +65 6462 2860
e-mail: asia@elcometer.com
www.elcometer.com

BELGIUM

Elcometer SA
Rue Vallée 13
B-4681 Hermalle /s Argenteau

Tel: +32 (0)4 379 96 10
Fax: +32 (0)4 374 06 03
e-mail: be_info@elcometer.be
www.elcometer.be

NETHERLANDS

Elcometer NL
Newtonlaan 115
3584 BH Utrecht

Tel: +31 (0)30 210 7005
Fax: +31 (0)30 210 6666
e-mail: nl_info@elcometer.com
www.elcometer.com

FRANCE

Elcometer Sarl
97 Route de Chécy
45430 BOU

Tel: +33 (0)2 38 86 33 44
Fax: +33 (0)2 38 91 37 66
e-mail: fr_info@elcometer.fr
www.elcometer.fr

GERMANY

Elcometer Instruments GmbH
Ulmer Strasse 68
D-73431 Aalen

Tel: +49 (0)7361 52806 0
Fax: +49 (0)7361 52806 77
e-mail: de_info@elcometer.de
www.elcometer.de