

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Standards in grey have been superceded but are still recognised in some industries.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

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