Elcometer 124 Thickness Gauge

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The Elcometer 124 Thickness Gauge is used to measure the peak-to-valley height of a surface profile moulded in the Elcometer 122 Testex Replica Tape.

- Available in both Metric and Imperial versions
- Quick and easy to use
- Anvil pressure as required in the Standards

Can be used in accordance with
ASTM D 4417-C
BS 7079-C5
ISO 8503-5
NACE RP0287
US Navy NSI 009-32
US Navy PPI 63101-000

Standards in grey have been superceded but are still recognised in some industries.

Surface Profile
The degree of profile on the surface affects a coating's overall performance. The height of the profile (measured from the peaks to the troughs) determines aspects such as adhesion, coverage and overall volume of coating used. If the profile is too large the amount of coating required to ensure adequate coverage increases, otherwise there is a danger that the peaks remain uncoated - allowing rust spots to occur. If the profile is too small, there may be an insufficient key to produce adequate adhesion, leading to premature coating failure. Ensuring the correct surface preparation optimises the performance of the coating and material usage.

There are four different methods available for testing surface profile:

- Surface Comparators
- Replica Tape
- Surface Profile Gauges
- Surface Roughness Testers

TECHNICAL SPECIFICATION					
Part Number	**Description**	**Range**	**Dimensions**	**Weight**	**Scale Resolution**
E124---3M	Elcometer 124 Metric	0.5mm	125 x 95 x 25mm	270g	2µm
E124---3E	Elcometer 124 Imperial	0.2"	4.9 x 3.6 x 1.0"	9.6oz	0.1mil

Elcometer 122 Testex® Replica Tape

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Elcometer 122 Testex Tape consists of foam with a non-compressible backing. The foam side is rubbed into the surface providing a permanent mould of the peak-to-valley profile, which can then be measured using the Elcometer 124 Thickness Gauge.

Elcometer 122 Testex Tape is available in three profile ranges. It is important that the tape grade chosen is reflective of the profile being measured, as using tape grade below the actual value may provide a “false” reading.

There are 50 tests in each roll.

Test Area Dimensions:
19 x 54mm (0.75 x 2.13”)

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TECHNICAL SPECIFICATION					
Description	**Profile Range**	**Part Number**			
		1 Roll	**Pack of 10**	**Pack of 50**	**Pack of 100**
Elcometer 122 Coarse	20 - 64µm (0.5 - 2.5mils)	E122----B1	E122----B10	E122----B50	E122----B100
Elcometer 122 X-Coarse	38 - 115µm (1.5 - 4.5mils)	E122----C1	E122----C10	E122----C50	E122----C100
Elcometer 122 X-Coarse Plus	116 - 147µm (4.6 - 5.8mils)	E122----F1	E122----F10	E122----F50	E122----F100

Related Products

Elcometer 224

Elcometer 224 Digital Surface Profile Gauge with Bluetooth®

The Elcometer 224 Digital Surface Profile Gauge provides an accurate way to measure surface profiles in microns and mils. The Elcometer 224 Model T has a large built-in memory which can store up to 50,000 readings in 999 batches and offers Bluetooth® wireless technology for cable free data transfer.

Elcometer 223

Elcometer 223 Digital Surface Profile Gauge

A Digital Surface Profile Gauge which measures the peak-to-valley height of a surface in a similar way to the Elcometer 224.

Elcometer 125

Elcometer 125 Surface Comparators

These extremely durable comparators allow the estimation of surface roughness of either grit and shot blasted surfaces.

Elcometer 127

Elcometer 127 Keane-Tator Surface Comparators & Magnifier

The Elcometer 127 range of Surface Comparators are available in sand, shot or grit surface profiles. Each comparator is supplied with 5 profile grades ranging from 0.5 - 5.5mils.

Elcometer 129

Elcometer 129 Rubert & Rugotest Surface Comparators

The Elcometer 129 Surface Comparators are available in two models: Elcometer 129 Rubert - available in grit and shot versions; Elcometer 129 Rugotest - shot and grit profiles on the same block.

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