

## Elcometer 124 Thickness Gauge



Elcometer 124 Thickness Gauge

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

### 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

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*Standards in grey have been superceded but are still recognised in some industries.*

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



Elcometer 122 Testex® Replica Tape

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”)

Can be used in accordance with  
[ASTM D 4417-C](#)  
[BS 7079-C5](#)  
[ISO 8503-5](#)  
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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