

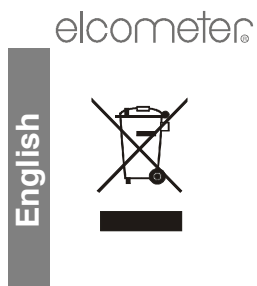
124 Testex Dial Thickness Gauge

Elcometer 124

English

Foil Thickness Gauge

Operating Instructions



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A copy of this Instruction Manual is available for download on our Website via www.elcometer.com.

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Thank you for your purchase of the Elcometer 124 Foil Thickness Gauge. Welcome to Elcometer.

Elcometer are world leaders in the design, manufacture and supply of inspection equipment for coatings and concrete. Our products cover all aspects of coating inspection, from development through application to post application inspection.

The Elcometer 124 Foil Thickness Gauge is a world beating product. With the purchase of this product you now have access to the worldwide service and support network of Elcometer. For more information visit our website at www.elcometer.com

1 INTRODUCTION

The Elcometer 124 Foil Thickness Gauge measures the thickness of sheet material, foils and the size of small items.

It is mainly used to measure Elcometer 122 Testex Tape, which records surface profiles.

1.1 STANDARDS

Together, your Elcometer 124 Foil Thickness Gauge and Elcometer 122 Testex Tape can be used in accordance with the following National and International Standards: ASTM D4417-C, BS ISO 8503-5, NACE RP 0287, US Navy NSI 009-32, US Navy PP1 63101-000.

1.2 WHAT THE BOX CONTAINS

- Elcometer 124 Foil Thickness Gauge
- Operating Instructions

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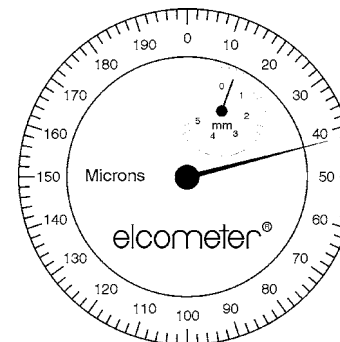
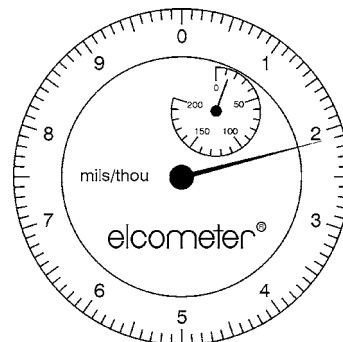
2 USING THE FOIL THICKNESS GAUGE

1. Open the jaws by the lever at the top of the dial
2. Insert the sample between the anvils. Gently release the lever.
3. The long needle indicates small changes in thickness, the short needle shows how many complete turns made by the long needle.

To set Zero, check that the measuring faces of the anvils are clean. Release the knurled screw on the top left of the dial and turn the scale until '0' lines up with the end of the long needle. The short needle should be close to '0'.

To calculate the thickness, first look at the short needle to see how many revolutions have been counted on the small scale. Multiply this number by the full-scale value and add on the long needle reading to obtain the total thickness.

The two black markers on the outer edge of the dial can be positioned to indicate the upper and lower specification limits.



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3 USING THE ELCOMETER 124 WITH ELCOMETER 122 TESTEX TAPE

Elcometer 122 Testex Tape comprises two layers of plastic; a soft layer which carries an impression of the rough surface and a hard layer 50 microns (2 mil) thick which acts as a substrate for the soft layer. Only the thickness of the soft layer needs to be recorded.

The Elcometer 124 can be set to subtract automatically the thickness of the hard layer from the total thickness of the tape:

- Ensure the faces of the anvil are clean.
- Loosen the knurled screw near the top of the dial and rotate the large scale clockwise until the long needle points to 150 microns or 8 mil.
- Tighten the knurled screw.

Readings of Elcometer 122 Testex Tape samples will now be shown directly by the long needle, effectively by having 50 microns (2 mil) subtracted from the total thickness.

4 MAINTENANCE

Elcometer products are designed to give many years reliable service under normal operating and storage conditions. The instrument does not contain any user-serviceable components. In the unlikely event of a fault, the instrument should be returned to your local Elcometer supplier, or direct to Elcometer. The warranty will be invalidated if the instrument has been opened.

Ensure the anvils are kept clean.

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5 TECHNICAL SPECIFICATION

Material:	Stainless steel	
Dimensions:	125 x 90 x 25mm (4.9 x 3.6 x 1.0")	
Weight:	270g (9.6oz)	
Scale:	Metric	Imperial
Total range:	5 mm (5000 microns)	0.2" (200 mil)
Each division:	0.002 mm (2 microns)	0.0001" (0.1 mil)
Full scale value:	0.2 mm (200 microns)	0.010" (10 mil)
Revolutions:	25	20

Your Elcometer 124 Foil Thickness Gauge may be packed in a cardboard and foam package. Please ensure that this packaging is disposed of in an environmentally sensitive manner. Consult your local Environmental Authority for further guidance.

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6 RELATED EQUIPMENT

In addition to the Elcometer 124 Foil Thickness Gauge, Elcometer produces a wide range of other thickness equipment. Users of the Elcometer 124 Foil Thickness Gauge may also benefit from the following Elcometer product ranges:

- Elcometer 122 Testex Replica Tape
- Elcometer 121 Universal Paint Inspection Gauge

For further information contact Elcometer, your local Elcometer supplier or visit www.elcometer.com

elcometer®
www.elcometer.com

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 #03-09
Singapore 589472,
Tel: +65 6462 2822
Fax: +65 6462 2860
e-mail: asia@elcometer.com
www.elcometer.com

JAPAN

Elcometer KK
7F Toranomon MT40 Bldg. 5-13-1
Toranomon, Minato-ku
Tokyo 105-0001
Tel: +81 (0)3-4530-9714
Fax: +81 (0)3-4530-9713
email: jp_info@elcometer.com
www.elcometer.co.jp

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.com
www.elcometer.be

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.com
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

THE NETHERLANDS

Elcometer NL
Newtonlaan 115
3584 BH Utrecht
Tel: +31 (0)30 210.7005
Fax: +31 (0)30 210.6666
email: nl_info@elcometer.com
www.elcometer.com