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Elcometer 3230 Wet Film Wheels



Elcometer 3230 Wet Film Wheels

At a glance

- Accurate gauges for measuring the thickness of wet film coatings.
- Wide range of scales to meet your specific requirements.

Can be used in accordance with:		
ASTM D 1212-91-A	BS 3900-C5-1B	
ISO 2802-1B	NF T30-125	

Elcometer 3230 Wet Film Wheels

The Elcometer 3230 Wet film Wheels, formally known as the Elcometer 120 consist of three circles. The central circle is of smaller diameter and is eccentric of the two outer circles. By rolling the gauge on a wet coating, the centre disc eventually touches the film. This point indicates the thickness.

If the volume to solids ratio of the coating is known, then the wet film thickness can be used to predict the dry film measurement.

Various measurement ranges from 0 to 25µm - 0 to 3000µm (0 to 1mil - 0 to 40mils) are available

- Continuous Scale results in ±5% measurement accuracy
 - Suitable for flat and curved surfaces
- Stainless steel giving a hard-wearing instrument which can be cleaned with solvents for reuse

Wet Film Thickness

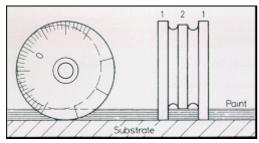
It is important that a coating is applied to the correct thickness. Applying too much wet coating will not only waste and money, but also there is also a possibility of the coating cracking during the curing process. Too little coating and there is a chance that the substrate will not be sufficiently covered.

To control process variables, it is often desirable to measure whilst the film is still wet. Wet film measurements are also useful for systems where the dry film thickness can only be measured destructively.

Test Method - how to use a wet film wheel

Hold the wheel by its central spindle. Begin at maximum thickness to reduce risk of inaccuracy caused by surface tension.

Roll the wheel through the wet film with the side 1 in the diagram touching the substrate. Roll for at least one whole turn and slowly enough for wetting to occur. Roll the wheel backwards by at least on complete turn. The wet film thickness is read from the scale, at the end of the wetted segment of the middle circle, 2 in the diagram.



To use wheel on pipes, measure across the longitudinal axis (lengthways) of the pipe.

On rough surfaces, measurements will be made from the surface peaks and represent the minimum wet film thickness.

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Model	Description	Scale Range	Graduations	Part Number
Elcometer 3230/1	Elcometer 3230 Wet Film Wheel	0 - 25µm	1.25µm	K0003230M001
Elcometer 3230/16	Elcometer 3230 Wet Film Wheel	0 - 40µm	2.0 µm	K0003230M016
Elcometer 3230/2	Elcometer 3230 Wet Film Wheel	0 - 50µm	2.5µm	K0003230M002
Elcometer 3230/3	Elcometer 3230 Wet Film Wheel	0 - 100µm	5.0µm	K0003230M003
Elcometer 3230/4	Elcometer 3230 Wet Film Wheel	0 - 150µm	7.5µm	K0003230M004
Elcometer 3230/5	Elcometer 3230 Wet Film Wheel	0 - 200µm	10.0µm	K0003230M005
Elcometer 3230/6	Elcometer 3230 Wet Film Wheel	0 - 250µm	12.5µm	K0003230M006
Elcometer 3230/7	Elcometer 3230 Wet Film Wheel	0 - 300µm	15.0µm	K0003230M007
Elcometer 3230/8	Elcometer 3230 Wet Film Wheel	0 - 400µm	20.0µm	K0003230M008
Elcometer 3230/9	Elcometer 3230 Wet Film Wheel	0 - 500µm	25.0µm	K0003230M009
Elcometer 3230/10	Elcometer 3230 Wet Film Wheel	0 - 1000µm	50.0µm	K0003230M010
Elcometer 3230/15	Elcometer 3230 Wet Film Wheel	0 - 1500µm	75.0 µm	K0003230M015
Elcometer 3230/11	Elcometer 3230 Wet Film Wheel	0 - 2000µm	100µm	K0003230M011
Elcometer 3230/12	Elcometer 3230 Wet Film Wheel	0 - 3000µm	150µm	K0003230M012
Elcometer 3230/1a	Elcometer 3230 Wet Film Wheel	0-1 mils	0.05mil	K0US3230M001
Elcometer 3230/2a	Elcometer 3230 Wet Film Wheel	0-2 mils	0.1mil	K0US3230M002
Elcometer 3230/3a	Elcometer 3230 Wet Film Wheel	0- 4 mils	0.2mil	K0US3230M003
Elcometer 3230/4a	Elcometer 3230 Wet Film Wheel	0- 6 mils	0.25mil	K0US3230M004
Elcometer 3230/5a	Elcometer 3230 Wet Film Wheel	0- 12 mils	0.5mil	K0US3230M005
Elcometer 3230/6a	Elcometer 3230 Wet Film Wheel	0- 20 mils	1mil	K0US3230M006
Elcometer 3230/7a	Elcometer 3230 Wet Film Wheel	0- 40 mils	2mil	K0US3230M007
	15cm (5") Wet film wheel handle			KT003230N003
Accessories	50cm (19") Wet film wheel handle			KT003230N002
100cm (39") Wet film wheel handle				KT003230N001
Packing List	Elcometer 3230 Wet Film Wheel, Storage case & Operating instructions			

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Related products



Elcometer 3230 coil coating



Elcometer 112/3236



Elcometer 115



Elcometer 3238



Elcometer 154



Elcometer 3233

Similar to the Elcometer 3230 wet film wheels, but designed for use in the coil coating process. These coil coating wheels consist of three circles. The outer circles are knurled to allow measurements to be taken on slippery coatings or on fast moving substrates.

Precision formed in stainless steel to be longlasting and reusable, these hexagonal wet film combs are supplied in a range of thicknesses and can measure up to a maximum thickness of $3000\mu m$ (120mils). This high upper value allows measurement of thick coatings which are difficult to test by other methods.

These precision film combs, formed in stainless steel to be long-lasting and reusable, are supplied in Metric and Imperial values on the same comb. Four separate ranges of thicknesses are available up to a maximum thickness of 1270µm (50mils). Each comb has 10 measurements (or teeth) per comb.

Similar to the Elcometer 115, the Elcometer 3238 provides the user with more measurement points (teeth). These rectangular wet film combs are available in 3 ranges up to a maximum thickness of 1200µm (50mils) – supplied either separately or in a set of 3.

Made from ABS plastic, the Elcometer 154 Wet Film Combs are designed to be used only once and kept as a record of wet film thickness measurement for your ISO or customer requirements. Both Metric and Imperial values are on the same comb, 50 to 800µm on one side, 2 to 32mils on the reverse.

This instrument consists of two concentric cylinders, one sliding inside the other. A spherical glass lens is fitted to the end of the central cylinder and when pressed into the wet film it leaves a trace. The diameter of this mark depends on the thickness of the coating.

elcometer

ENGLAND Elcometer Ltd 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

CANADA

Elcometer Ltd PO Box 622, 401 Ouelette Avenue Windsor, Ontario N9A 6N4

Tel: +1 248 650 0500 Toll Free: 800 521 0635 Fax: +1 248 650 0501 e-mail: ca_info@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

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