

# Elcometer 3230 Coil Coating Wet Film Wheels



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**At a glance**

- Accurate wet film thickness gauge for the coil coating process.

**Elcometer 3230 Coil Coating Wet Film Wheels**

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.

By rolling the gauge on a wet coating, the centre disc eventually touches the film. This point on the scale 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 thickness.

**Wet Film Thickness**

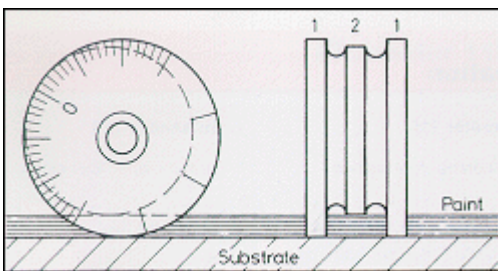
It is important that a coating is applied to the correct thickness. Applying too much wet coating will not only waste and money, but also there is also a possibility of the coating cracking during the curing process. Too little coating and there is a chance that the substrate will not be sufficiently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

Model	Description	Scale Range	Graduations	Part Number
Elcometer 3230/17	Grooved Wet Film Wheel – Coil Coating	0 - 50µm	2.5µm	K0003230M017
Elcometer 3230/18	Grooved Wet Film Wheel – Coil Coating	0 - 100µm	5.0µm	K0003230M018
Elcometer 3230/19	Grooved Wet Film Wheel – Coil Coating	0 - 300µm	15.0µm	K0003230M019
Elcometer 3230/17a	Grooved Wet Film Wheel – Coil Coating	0 – 2 mils	0.1mil	K0US3230M017
Elcometer 3230/18a	Grooved Wet Film Wheel – Coil Coating	0 – 4 mils	0.2mil	K0US3230M018
Elcometer 3230/19a	Grooved Wet Film Wheel – Coil Coating	0 – 12 mils	0.5mil	K0US3230M019
<b>Accessories</b>	50cm (19”) Wet film wheel handle			KT003230N002
	100cm (39”) Wet film wheel handle			KT003230N001

## Related products



Elcometer 3230

Formally known as the Elcometer 120, the Elcometer 3230 wet film wheel consists of three circles. The central circle is of smaller diameter and is eccentric of the two outer circles. By rolling the gauge through a wet coating, the centre disc eventually touches the film. This point on the scale indicates the thickness. Various measurement ranges from 0 to 25µm - 0 to 3000µm (0 to 1mil - 0 to 40mils) are available.



Elcometer 112/3236

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



Elcometer 115

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.



Elcometer 3238

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.



Elcometer 154

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.



Elcometer 3233

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.

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