

Elcometer 115 Film Combs



Elcometer 115 Wet Film Combs

These reusable precision stainless steel combs are made to be long lasting.

Available as either metric or imperial combs with thickness ranges up to a maximum of 1270µm or 50mils, the Elcometer 115 is manufactured to an accuracy of 5% or 2.5µm (0.01mil), whichever is the greater.

Each comb has 10 measurement steps (teeth).

Using a Wet Film Comb

Place a comb perpendicular to and touching the substrate. Hold the comb in position and wait a few seconds until the teeth are wet. Remove the comb from the film.

The wet film thickness lies between the biggest value 'coated' or 'wet' tooth and the smallest value 'uncoated' or 'dry' tooth.

At a glance:

- Precision wet film combs used to determine the thickness of wet paint prior to curing.
- Manufactured from stainless steel, these combs are designed for re-use over many years.

Can be used in accordance with:
[AS/NZS 1580.107.3](#)
[ASTM D 4414-A](#)
[BS 3900-C5-7B](#)
[ISO 2808-1A](#)
[ISO 2808-7B](#)
[NF T30-125](#)
[US Navy NSI 009-32](#)
[US Navy PPI 63101-000](#)

Wet Film & Powder Thickness

Whether you are applying a liquid or powder coating, by measuring the uncured film thickness, it is possible to determine the eventual dry film thickness.

Applying too much coating not only wastes time and materials, it can also affect the performance and finish of the product. Too much wet film can cause the coating to crack as it cures; too little coating increases the risk that the substrate will not be sufficiently protected, leading to rust spots.

In the powder coating industry, ensuring the end product has the correct levels of adhesion and appearance is dependent on the thickness of the powder prior to the curing process. Too much powder can lead to poor adhesion, too little can lead to a discolouration and loss in gloss of the coating

The three methods for measuring wet film thickness are:

- Wet Film Combs
- Pfund Thickness Gauges
- Wet Film Wheels

In each case, the thickness of the coating is measured and the dry film thickness can be estimated using the coating's solid : wet ratio.

TECHNICAL SPECIFICATION		
Measuring Range	Measurement Steps	Part Number
1 – 13mils	1, 1.5, 2, 3, 4, 5, 7, 9, 11, 13mils	B11529451E
20 – 325µm	20, 35, 50, 75, 100, 125, 175, 225, 275, 325µm	B11529455M
2 – 18mils [†] (51 – 457µm)	2, 3, 4, 6, 8, 10, 12, 14, 16, 18mils (51, 76, 102, 152, 203, 254, 305, 356, 406, 457µm)	B11529452
2 – 30mils [†] (51 – 762µm)	2, 4, 6, 8, 10 [‡] , 10 [‡] , 15, 20, 25, 30mils (51, 102, 152, 203, 254, 254, 381, 508, 635, 762µm)	B11529453
5 – 50mils [†] (127 – 1270µm)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50mils (127, 254, 381, 508, 635, 762, 889, 1016, 1143, 1270µm)	B11529454

[†] True imperial values on side 1, metric conversion on side 2

[‡] Two 10mil (254µm) values, one on each edge of the comb

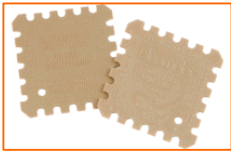
Related Products



Elcometer 3230

Elcometer 3230 Wet Film Wheels

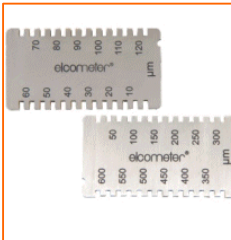
The Elcometer 3230 Wet Film Wheel is a high precision, accurate and easy to use instrument which consists of a set of three wheels. The central wheel is of a smaller diameter and is eccentric relative to the two outer wheels. By rolling the gauge through a wet coating, the centre wheel eventually touches the film. This point on the scale indicates the thickness.



Elcometer 154

Elcometer 154 Plastic Wet Film Combs

The Elcometer 154 Wet Film Combs are made from ABS plastic and are designed to be used once and kept as a record of wet film thickness measurement for quality assurance or customer requirements.



Elcometer 3238

Elcometer 3238 Long Edge Wet Film Combs

These stainless steel combs are wire eroded to provide an accuracy of $\pm 2.5\mu\text{m}$ (0.01mil) and are supplied with either Metric or Imperial measurements.



Elcometer 112 & 3236

Elcometer 112 & 3236 Hexagonal Wet Film Combs

These hexagonal precision formed stainless steel wet film combs are long lasting and reusable and are supplied in a range of thicknesses measuring up to $3000\mu\text{m}$ (120mils).



Elcometer 112AL

Elcometer 112AL Punched Aluminium Wet Film Combs

These punched aluminium combs offer the user a low cost method of measuring the wet film thickness. Supplied in a pack of 10 combs, they have Metric units (25 - $3000\mu\text{m}$) on one side and Imperial values (1 - 118mils) on the other.

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