

Elcometer 112AL Punched Wet Film Combs (Aluminium)

These punched aluminium combs offer the user a low cost method of measuring the wet film thickness.

The Elcometer 112AL, being punched from aluminium, is not as accurate as precision formed stainless steel wet film combs and has a shorter lifespan.

Supplied in a pack of 10 combs, each comb has Metric (25 - 3000µm) on one side and Imperial (1 - 118mils) on the other.

The Elcometer 112AL can be customised with your logo.

Please contact Elcometer for further details.



STANDARDS:

ASTM D 4414-A, AS/NZS 1580.107.3, BS 3900-C5-7B, ISO 2808-1A, ISO 2808-7B, JIS K 5600-1-7, NF T30-125, US Navy PPI 63101-000, US Navy NSI 009-32

Elcometer 112 & 3236 Hexagonal Wet Film Combs (Stainless Steel)

These hexagonal precision formed stainless steel wet film combs are long lasting, reusable and supplied in a range of thicknesses measuring up to 3000µm (120mils).

These six sided combs vary in size, giving either 24 or 36 measurement steps, depending upon the comb, thus providing increased accuracy.

STANDARDS:

ASTM D 4414-A, AS/NZS 1580.107.3, BS 3900-C5-7B, ISO 2808-1A, ISO 2808-7B, JIS K 5600-1-7, NF T30-125, US Navy PPI 63101-000, US Navy NSI 009-32

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Elcometer 112AL Punched Wet Film Combs (Aluminium)

Technical Specification

Part Number	Description		
B112AL12473-3	Elcometer 112AL Aluminium Wet Film Comb (Pack of 10)		
Accuracy	Nominal Values		
Dimensions	75 x 65 x 1mm (2.95 x 2.56 x 0.04")	Weight	90g (3.17oz)
Packing List	Elcometer 112AL (Pack of 10) and operating instructions		

Elcometer 112 & 3236 Hexagonal Wet Film Combs (Stainless Steel)

Technical Specification

C

Part Number	Range	Values	Certificate
K0003236M201	20 - 370µm	20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370µm	○
K0003236M202	25 - 2000µm	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000µm	○
B112----1B	25 - 3000µm	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000µm	○
K0US3236M203	0.5 - 15mils	0.5, 0.75, 1.0, 1.25, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 9, 10, 11, 12, 13, 14, 15mils	○
K0US3236M204	1 - 80mils	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 55, 60, 65, 70, 75, 80mils	○
B112----2B	1 - 120mils	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 26, 28, 30, 32, 34, 36, 38, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120mils	○
Accuracy	±5% of marked value or 3µm (0.12mil) whichever is the greater		
Dimensions and Weight	Elcometer 3236 M201 / M203	53 x 50 x 1mm (2.09 x 1.97 x 0.04"), 10g (0.35oz)	
	Elcometer 3236 M202 / M204	77 x 90 x 1mm (2.95 x 3.54 x 0.04"), 22g (0.77oz)	
	Elcometer 112	75 x 65 x 1mm (2.95 x 2.54 x 0.04"), 20g (0.7oz)	
Packing List	Wet Film Comb, storage case and operating instructions		

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.

Metric and Imperial values are on the same comb, 50 to 800µm on one side, 2 to 32mils on the other.

Supplied in a pack containing 500 combs. Each comb has 16 measurement steps.

STANDARDS:

BS 3900-C5-7B, ISO 2808-1A, ISO 2808-7B, JIS K 5600-1-7, NF T30-125

Technical Specification

Part Number	Description
B154----1	Elcometer 154 Plastic Wet Film Combs (Pack of 500)
Accuracy	Nominal Values
Dimensions	40 x 40mm (1.57 x 1.57")
Weight	900g (2lb)
Packing List	Elcometer 154 Wet Film Combs (Pack of 500) and operating instructions

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.

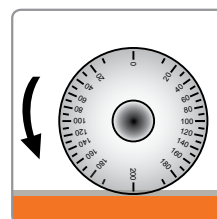
The central wheel is of a smaller diameter and is eccentric relative to the two outer wheels. By rolling the gauge through a wet coating, the centre wheel eventually touches the film. This point on the scale indicates the thickness.

A convenient mounting handle for the wheel is available in two lengths; 15cm (6") or 50cm (19"); please order separately.

When the volume to solids ratio of the coating is known (generally found on the product data sheet supplied by the manufacturer), the wet film thickness can be used to predict the dry film thickness.

Several measurement ranges between 0 to 25µm and 0 to 1000µm (0 to 1mil and 0 to 40mils) are available.

- Continuous scale produces ±5% measurement accuracy
- Suitable for flat and curved surfaces



STANDARDS:

ASTM D 1212-A, AS/NZS 1580.107.3, BS 3900-C5-7A, ISO 2808-1B, ISO 2808-7A, JIS K 5600-1-7, NF T30-125

Technical Specification

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Metric Film Wheels				Imperial Film Wheels			
Part Number	Range	Graduations	Certificate	Part Number	Range	Graduations	Certificate
K0003230M001	0 - 25µm	1.25µm	○	K0US3230M001	0 - 1mil	0.05mil	○
K0003230M016	0 - 40µm	2.0µm	○	-	-	-	○
K0003230M002	0 - 50µm	2.5µm	○	K0US3230M002	0 - 2mils	0.10mil	○
K0003230M003	0 - 100µm	5.0µm	○	K0US3230M003	0 - 4mils	0.20mil	○
K0003230M004	0 - 150µm	7.5µm	○	K0US3230M004	0 - 6mils	0.25mil	○
K0003230M005	0 - 200µm	10.0µm	○	-	-	-	○
K0003230M006	0 - 250µm	12.5µm	○	-	-	-	○
K0003230M007	0 - 300µm	15.0µm	○	K0US3230M005	0 - 12mils	0.50mil	○
K0003230M008	0 - 400µm	20.0µm	○	-	-	-	○
K0003230M009	0 - 500µm	25.0µm	○	K0US3230M006	0 - 20mils	1.0mil	○
K0003230M010	0 - 1000µm	50.0µm	○	K0US3230M007	0 - 40mils	2.0mils	○
Accuracy	±5% of marked value or 3µm (0.12mil) whichever is the greater						
Dimensions	50 x 30mm (1.97 x 1.18")						
Weight	220g (7.76oz)						
Packing List	Wet Film Wheel, storage case and operating instructions						

Accessories

- KT003230N003 15cm (6") Wet Film Wheel Handle
- KT003230N002 50cm (19") Wet Film Wheel Handle

○ Optional Calibration Certificate available.

This instrument is similar to the Elcometer 3230 Wet Film Wheel, but is designed for use in the coil coating process. The outer wheels are knurled to allow measurements to be taken on slippery coatings or on fast moving substrates.

When the volume to solids ratio of the coating is known (generally found on the product data sheet supplied by the manufacturer), the wet film thickness can be used to predict the dry film thickness.



ASTM D 1212-A, AS/NZS 1580.107.3, BS 3900-C5-7A,
ISO 2808-1B, ISO 2808-7A, JIS K 5600-1-7, NF T30-125

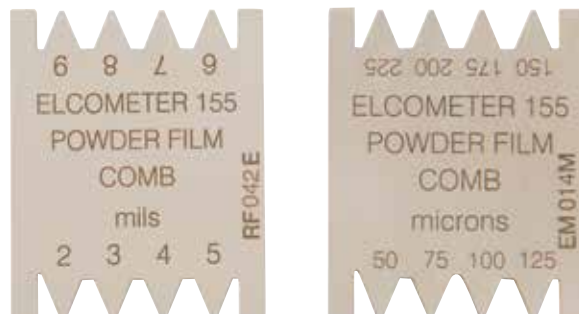
Metric		Imperial					
Part Number	Range	Graduations		Part Number	Range	Graduations	
K0003230M017	0 - 50µm	2.5µm		K0US3230M017	0 - 2mils	0.1mils	
K0003230M018	0 - 100µm	5.0µm		K0US3230M018	0 - 4mils	0.2mils	
Accuracy	Nominal Values						
Dimensions	50 x 30mm (1.97 x 1.18")						
Weight	220g (7.76oz)						
Packing List	Coil Coating Wet Film Wheel, storage case and operating instructions						

Elcometer 155 Uncured Powder Film Comb

Available in four scale ranges, the Elcometer 155 is designed to measure uncured powder coating film thickness.

This enables the application system to be set up and fine tuned prior to the curing process. In turn, this will reduce the amount of scrap and over-spray.

Note: The thickness of a coating prior to cure is not the same value after curing but there is a correlations. The powder comb is suitable as a guide only.



STANDARDS:

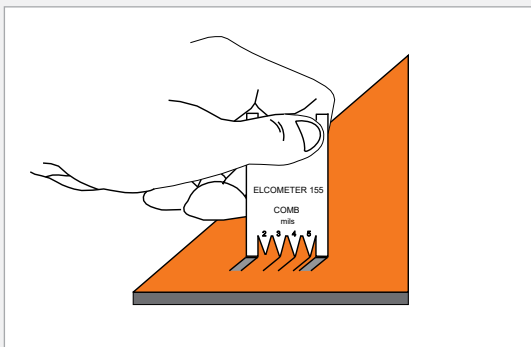
ASTM D7378-A

Technical Specification

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Part Number*	Description	Range	Certificate
B15513573-5	Elcometer 155 Metric Powder Film Comb	50 - 225µm	○
B15513573-6	Elcometer 155 Metric Powder Film Comb	225 - 1250µm	○
B15513573-1	Elcometer 155 Imperial Powder Film Comb	2 - 9mils	○
B15513573-2	Elcometer 155 Imperial Powder Film Comb	9 - 50mils	○
B15513573-10	Metric Comb Set (2 combs)	50 - 225µm and 225 - 1250µm	○
B15513573-9	Imperial Comb Set (2 combs)	2 - 9mils and 9 - 50mils	○
Accuracy	±5µm (±0.2mil)		
Dimensions	38mm x 46mm (1.5" x 1.8")		
Weight	18g (0.6oz)		
Packing List	Elcometer 155 Powder Comb and powder comb wallet for two combs		

How to use a powder comb



Place the comb into the powder and slide the comb along the surface. The measurement points (or teeth) are pointed and allow the powder to flow around them.

The thickness of the powder lies between the highest value where a drag mark is visible and the lowest value where a drag mark has not been produced.

* The Elcometer 155 is not available for sale in the USA

○ Optional Calibration Certificate available.

Elcometer 3233 Pfund Thickness Gauge

Available in aluminium or stainless steel 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, leaves a circular trace.

The diameter of the mark on the lens is measured and, using the supplied conversion table, the thickness of the coating can be easily assessed.

- Ideal for measuring the thickness of wet translucent products such as varnishes, oils etc.
- Measurement range of 2.25 - 360µm (0.09 - 14.17mils)

**STANDARDS:**

ASTM D 1212-B, NF T30-125

Technical Specification

Part Number	Description
K0003233M001	Elcometer 3233 Aluminium Pfund Thickness Gauge
K0003233M002	Elcometer 3233 Stainless Steel Pfund Thickness Gauge
Dimensions	60 x 80mm (2.36 x 3.15")
Weight	195g (6.88oz)
Packing List	Pfund Thickness Gauge, stainless steel rule, conversion table, storage case and operating instructions

Elcometer 3238 Long Edge Wet Film Combs (Stainless Steel)

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.

Each comb has 24 measurement steps (teeth) providing a more accurate wet film thickness value.

STANDARDS:

ASTM D 4414-A, AS/NZS 1580.107.3, BS 3900-C5-7B, ISO 2808-1A, ISO 2808-7B, JIS K 5600-1-7, NF T30-125, US Navy PPI 63101-000, US Navy NSI 009-32

Technical Specification

Metric Combs				Imperial Combs			
Part Number	Range	Measurement Steps	Certificate	Part Number	Range	Measurement Steps	Certificate
K0003238M201	5 – 120 μm	5 μm	○	K0US3238M201	0.5 – 6mils	0.5mil	○
K0003238M202	25 – 600 μm	25 μm	○	K0US3238M202	1.0 – 24mils	1.0mil	○
K0003238M203	50 – 1200 μm	50 μm	○	K0US3238M203	2.0 – 48mils	2.0mil	○
K0003238M204	-	Set of 3 Combs	○	K0US3238M204	-	Set of 3 Combs	○
Accuracy	$\pm 5\%$ of marked value or 3 μm (0.12mil) whichever is the greater						

Elcometer 115 Wet Film Combs (Stainless Steel)

These reusable precision stainless steel combs are made to be long lasting and are supplied with either Metric or Imperial measurements.

Four separate thickness ranges are available up to a maximum of 1250µm or 50mils and are manufactured to an accuracy of 5% or 2.5µm (0.01mil), whichever is the greater.

Each comb has 10 measurement steps (teeth).

STANDARDS:

ASTM D 4414-A, AS/NZS 1580.107.3, BS 3900-C5-7B,
ISO 2808-1A, ISO 2808-7B, JIS K 5600-1-7, NF T30-125,
US Navy PPI 63101-000, US Navy NSI 009-32

Technical Specification

C

Metric Combs				Imperial Combs			
Part Number	Range	Measurement Steps	Certificate	Part Number	Range	Measurement Steps	Certificate
B11529455M	20 – 325µm	20, 35, 50, 75, 100, 125, 175, 225, 275, 325µm	○	B11529451E	1 – 13mils	1, 1.5, 2, 3, 4, 5, 7, 9, 11, 13mils	○
B11529456M	50 – 450µm	50, 75, 100, 150, 200, 250, 300, 350, 400, 450µm	○	B11529452E	2 – 18mils	2, 3, 4, 6, 8, 10, 12, 14, 16, 18mils	○
B11529457M	50 – 750µm	50, 100, 150, 200, 250, 350, 450, 550, 650, 750µm	○	B11529453E	2 – 30mils	2, 4, 6, 8, 10 [†] , 10 [†] , 15, 20, 25, 30mils	○
B11529458M	125 – 1250µm	125, 250, 375, 500, 625, 750, 875, 1000, 1125, 1250µm	○	B11529454E	5 – 50mils	5, 10, 15, 20, 25, 30, 35, 40, 45, 50mils	○
B1152959WM	-	Set of 4 Combs	○	B1152959WE	-	Set of 4 Combs	○
Accuracy	±5% of marked value or 3µm (0.12mil) whichever is the greater						

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