

Elcometer 106 Pull-Off Adhesion Tester

This easy to operate and fully portable Type II adhesion gauge provides a numerical value for adhesion.

Applications include paint or plasma spray on bridge decking, coatings on steel, aluminium, concrete etc.

- Supplied in a carry case - ideal for site tests
- Hand operated - no power supply necessary
- Includes a cutter for EN13144 and ISO 4624 tests

Test Method

A test dolly is bonded to the coating using an adhesive. The Elcometer 106 houses a spring arrangement which applies a lift force to the dolly as the tension is increased.

When the coating is pulled off the surface, an indicator on the scale shows the numerical value of adhesion expressed in terms of the force per unit area required to remove the dolly.

Inspection of the dolly face is required to determine the failure mode.



STANDARDS:

AS 1580.408.5, ASTM D 4541, AS/NZS 1580.408.5,
EN 13144, EN 24624, ISO 4624, ISO 16276-1,
JIS K 5600-5-7, NF T30-062, NF T30-606

Technical Specification

Part Number	Description	MPa (N/mm ²)	Range			Certificate
			kg/cm ²	psi		
F106----1	Elcometer 106 Adhesion Tester - Scale 1	0.5 - 3.5	5 - 35	72 - 500		○
F106----2	Elcometer 106 Adhesion Tester - Scale 2	1 - 7.0	10 - 70	145 - 1000		○
F106----3	Elcometer 106 Adhesion Tester - Scale 3	3 - 15	30 - 150	435 - 2000		○
F106----4	Elcometer 106 Adhesion Tester - Scale 4	5 - 22	50 - 220	725 - 3200		○
F106----5	Elcometer 106 Adhesion Tester - Scale 5	0.05 - 0.2	0.5 - 2.0	7.25 - 30		○
Dimensions	Scales 1, 2, 5: 175 x 76mm (7 x 3") Scales 3 and 4: 185 x 76mm (7.5 x 3")					
Dolly Diameter	20mm (0.76")	Dolly Area	314mm ² (0.49 sq inch)			
Gross weight of Kit	Scale 1, 2 and 5: 2.8kg (6.2lb)	Scale 3: 4.2kg (9.3lb)	Scale 4: 4.5kg (9.9lb)			
Packing List	Elcometer 106 Pull-Off Adhesion Tester, pack of 20 dollies, Araldite adhesive, base support ring, magnetic dolly clamp, dolly cutter, carry case and operating instructions					

Accessories

T1062895-10	Spare Dollies 20mm (0.76") Diameter (Pack of 10)
T1062895-	Spare Dollies 20mm (0.76") Diameter (Pack of 100)
T1062914-	Large Dollies 40mm (1.52") Diameter (Pack of 5)
T1062915-	Large Base Ring for 40mm (1.52") Dollies
T99923924	Elcometer AVU Adhesion Verification Unit - see page 10-11 for further information
T99912906	Araldite Standard Two Part Epoxy Adhesive, 2 x 15ml Tubes
T99914009	20mm (0.76") Dolly Cutter

○ Optional Calibration Certificate available.