

Adhesion tester PosiTest AT-A (AT)

LD9300/9301

Datasheet

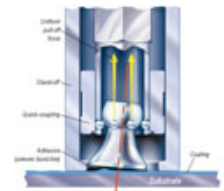
Product description The PosiTest *Pull-Off Adhesion Tester* measures the force required to pull a specified test diameter of coating applied to metal, wood, concrete and other rigid substrates away from its substrate using hydraulic pressure.



Standards Conforms to national and international standards including ASTM D4541/D7234, ISO 4624/16276-1, AS/NZS 1580.408.5 and others.

Application area's Coating Industry, Thermal Spraying, Tank coating, Ship building, Concrete protection, Research and Development, Contractors, Coaters, Finishers and Inspectors, etc.

Features PosiTest *Pull-Off Adhesion Tester* comes with an environmentally sealed, metal enclosure, heavy duty hydraulic pump and a hi-grade industrial pressure sensor. Both the Manual and Automatic PosiTest AT are built to last and can be used indoors and outdoors in all types of weather. The unit has an unique revolutionary "self-alignment feature" and pull rate indicator.



Standard delivery **Both Kits include:** Adhesion tester with digital display, 20 mm aluminum test dollies (20), Abrasive pad, Cutting tool, Adhesive with mixing sticks and palettes, Cotton swabs, Instruction booklet, Certificate of Calibration traceable to NIST, Instructional Video, Sturdy, lightweight carrying case, Two-year warranty, Shoulder strap (AT-A only).

Optional items
 LD9250: Dolly Drill for Adhesion tests
 LD9022: Araldit Epoxy Glue
 LD9306: Dollies 20 mm(set of 10 pcs)
 LD9307: Dollies 50 mm(set of 4 pcs)

Use With this method, a loading fixture commonly called a dolly or stud supplied as smooth steel or aluminium must be cleaned before it is glued with epoxy or acrylic adhesives to the surface. The coating surface must also be cleaned. Roughen the bonding surface of the dolly either with sandpaper or light abrasive blasting. The adhesive must cure for the amount of time recommended by the manufacturer. This can be several hours to a day, depending on the adhesive and the temperature. A critical step in the test procedure is positioning the dolly onto the surface. Avoid any movement, especially twisting, that can result in stress discontinuities during the pull testing. Wipe away any excess adhesive with a cotton swab once the dolly is in place. Place the self aligning adapter over the dolly by lifting the quick coupling ring upwards and when in place to release it. The pull is perpendicular to the surface, so tensile strength

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is being measured. The manual AT load to the dolly should be increased continuously and smoothly at a rate not to exceed 1 MPa/s (145 psi/s). In case of the automatic AT-A this is done by continued build up provided by the unit. Keep applying the load until failure occurs (or until the maximum force has been applied).

Technical specifications

Adhesion Strength	Dolly Size	Max Pull-Off Pressure	
	10 mm	10000 psi	70 MPa
	14 mm	6000 psi	40 MPa
	20 mm*	3000 psi	20 MPa
	50 mm**	500 psi	3.5 MPa

*supplied with PosiTest AT **requires 50mm kit

Resolution: 1 psi (0.01 MPa)
 Accuracy: ± 1% Full Scale
 Weight of Kit (with case) : 2 lbs / 5.5 kg
 Carrying Case Dimensions: L – 17 in / 43 cm, W – 13 in / 33 cm, H – 6 in / 15 cm
 Power: AT Manual – 2 AAA batteries
 AT-A Automatic – Built-in rechargeable NiMH batteries with recharger/AC power supply. (perform over 200 pull tests per charge)

Special care

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Always keep the instrument in its case when not in use.
- We recommend annual calibration

Safety Precautions

- Avoid using it in over-high or over-low temperature environment
- Avoid humidity
- Not suitable to be put in the sun.

Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.