Floating Roller Peel Fixture for Adhesives

Built to ASTM D3167 — Standard Test Method for Floating Roller Peel Resistance of Adhesives



OVERVIEW

Floating roller peel fixture for measuring the peel resistance of adhesive bonds between a flexible and a rigid adherend. The rigid adherend runs between free-turning rollers while the flexible adherend is pulled away, peeling the bond at a constant angle governed by the roller geometry.

KEY FEATURES

- Free-turning, bearing-mounted rollers for consistent peel angle
- Floating design lets the specimen self-center during peel
- Lower grip clamps the flexible adherend in line with the load axis
- Hardened, ground rollers for long service life
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Floating roller peel
Test type / loading	Tension, flexible adherend peeled from rigid adherend
Specimens	Rigid/flexible bonded specimens per ASTM D3167 geometry
Load capacity	5 kN standard; higher capacities on request
Fixture material	Hardened steel rollers, corrosion-resistant body
Rollers	Bearing-mounted, hardened and ground
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Aerospace structural adhesives
- Metal bonding surface treatment
- Adhesive qualification testing
- Bonding process QC

ABOUT THE STANDARD

ASTM D3167 determines the relative peel resistance of adhesive bonds between one rigid and one flexible adherend, typically metal, using a floating roller fixture. The flexible adherend is peeled from the rigid one as the specimen is drawn through rollers, giving a controlled peel angle. The method is widely used to compare structural adhesives and surface treatments.

Ordering & customization: Specify specimen width and adherend thicknesses, required capacity and test machine connection when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-D3167-PF