

ASTM D1062 Fracture Test Fixture

Cleavage Fixture for Metal-to-Metal Adhesive Bonds

Built to ASTM D1062 — Standard Test Method for Cleavage Strength of Metal-to-Metal Adhesive Bonds



OVERVIEW

Cleavage test fixture for metal-to-metal adhesive bonds. The bonded block specimen is pinned at one end to a pair of clevises that pull the two adherends apart, concentrating stress at the leading edge of the bond line. The fixture measures the force needed to cleave the joint.

KEY FEATURES

- Clevis pins load the specimen at one end to open the bond
- Self-aligning linkages keep load in the specimen plane
- Hardened pins and bushings for long service life
- Quick pin removal for fast specimen change
- Supplied with adapters to suit your load frame

TECHNICAL SPECIFICATIONS

Test method	Cleavage of metal-to-metal adhesive bonds
Test type / loading	Tension applied at one end of the bond
Specimens	Bonded metal blocks per ASTM D1062 geometry
Load capacity	10 kN standard; higher capacities on request
Fixture material	Heat-treated alloy steel
Gripping surfaces	Clevises with hardened loading pins
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Structural adhesive comparison
- Surface preparation studies
- Aerospace and automotive bonding QC
- Adhesive development

ABOUT THE STANDARD

ASTM D1062 determines the comparative cleavage strength of adhesive bonds between metal adherends. A bonded block specimen is loaded in tension at one end so that the bond is opened progressively, a loading mode especially severe for adhesives. Results support adhesive selection, surface preparation studies and process control for structural bonding.

Ordering & customization: Specify specimen dimensions and pin size, 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-D1062-FTF