Adhesive Butt-Joint Tensile Fixture (Bar and Rod)

Built to ASTM D2095 — Standard Test Method for Tensile Strength of Adhesives by Means of Bar and Rod Specimens



OVERVIEW

Tensile fixture for butt-joint adhesive specimens made from bonded bars or rods. The specimen ends are held in self-aligning holders that load the bond line in pure tension, minimizing bending and cleavage so that the measured failure load reflects the true tensile strength of the adhesive.

KEY FEATURES

- Self-aligning holders keep the bond line in pure tension
- Pin or threaded specimen attachment for bar and rod specimens
- Universal-joint style couplings minimize bending and cleavage
- Hardened load pins for repeatable, long-life use
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Tensile strength of butt-bonded bars and rods
Test type / loading	Axial tension normal to the bond plane
Specimens	Bonded bar or rod specimens per ASTM D2095 geometry
Load capacity	50 kN standard; higher capacities on request
Fixture material	Hardened alloy steel, corrosion-resistant finish
Specimen attachment	Load pins or threaded holders to suit specimen ends
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Structural adhesive comparison
- Metal butt-joint bonds
- Surface preparation evaluation
- Adhesive production QC

ABOUT THE STANDARD

ASTM D2095 determines the comparative tensile strength of adhesives bonded between bar or rod adherends, loaded perpendicular to the bond plane. Specimens are typically metal, butt-bonded end to end, and pulled to failure. Alignment is critical, so universal-joint or similar self-aligning loading is used to keep the load axial.

Ordering & customization: Specify bar or rod size, specimen end attachment, 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-D2095-TF