ASTM D897 Tensile Fixture

Tensile Fixture for Adhesive Bond Specimens

Built to ASTM D897 — Standard Test Method for Tensile Properties of Adhesive Bonds



OVERVIEW

Self-aligning tensile fixture for testing adhesive bonds per ASTM D897. Bonded metal specimen blocks are held in holders connected to the load train through spherical or universal-joint couplings, so the bond is pulled normal to its plane with minimal bending or peel.

KEY FEATURES

- Self-aligning couplings minimize bending of the bond line
- Holders sized to D897-type bonded specimens
- Quick specimen installation and removal
- Robust, corrosion-resistant construction
- Threaded or clevis adapters to suit load frame

TECHNICAL SPECIFICATIONS

Test method	Tensile properties of adhesive bonds
Test type / loading	Tension normal to bond line
Specimens	Bonded specimens per ASTM D897 geometry
Load capacity	50 kN standard; higher capacities on request
Fixture material	Hardened steel, corrosion-resistant finish
Alignment	Spherical or universal-joint couplings
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Structural adhesives
- Adhesive comparison and screening
- Surface preparation studies
- Bonding process QC

ABOUT THE STANDARD

ASTM D897 determines the comparative tensile properties of adhesive bonds when tested on standard shape specimens under defined conditions of preparation and testing. Two adherends are bonded face-to-face and pulled apart normal to the bond line. Results are used to compare adhesives and bonding processes.

Ordering & customization: Specify specimen geometry, required capacity and test machine connection.

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-D897-TF