SHEAR FIXTURES

Coating Shear Fixture

Shear grips for calcium phosphate and metallic coatings per ASTM F1044



OVERVIEW

Shear grips for testing calcium phosphate and metallic coatings to ASTM F1044 and ASTM F1160. Two coated cylindrical substrates bonded face to face are held in offset blocks and loaded so the coating interface fails in shear. Used to qualify coatings on orthopedic and dental implants.

KEY FEATURES

- Conforms to ASTM F1044 and ASTM F1160
- Offset grip blocks load the coating in shear
- Pinned specimen holders for quick changeover
- Corrosion-resistant construction made of nickel-coated steel
- Ø 31.8 mm (1-1/4 in) female clevis

TECHNICAL SPECIFICATIONS

Test type	Shear of coatings, static and fatigue
Max. load	On request
Specimens	Coated cylindrical substrates
Coupling	Female clevis, Ø 31.8 mm (1-1/4 in) pin
Material	Steel, nickel-coated
Temperature range	Ambient

AVAILABLE VERSIONS

Standard grips	ASTM F1044 / F1160, Ø 31.8 mm clevis
Sample preparation fixtures	For bonding coated specimens, up to +200 °C

APPLICATIONS

- Calcium phosphate coatings
- Porous metallic coatings
- Orthopedic implants
- Coating qualification

STANDARDS ASTM F1044, ASTM F1160

Ordering & customization: Specify specimen diameter, static or fatigue testing and the machine coupling.

Drawings available on request
Contact us for dimensional drawings or 3D models of this product.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-SF-320