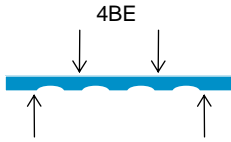


Summary of the most commonly used test methods

Part 7 - Osteosynthesis implants



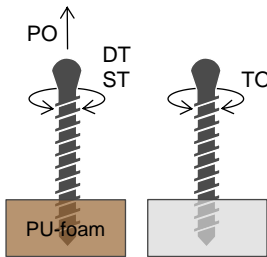
- Bone plates
- Static four-point bending (S-4BE)
 - Dynamic four-point bending (D-4BE)

ASTM F382

Standard Specification and Test Method for Metallic Bone Plates

Scope

Measuring the mechanical characteristics of bone plates



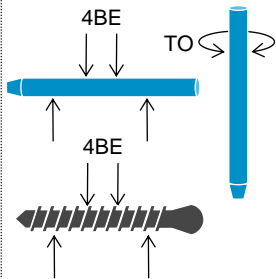
- Screws
- Static torsion (S-TO)
 - Axial pull-out (S-PO)
 - Driving torque (S-DT)
 - Self tapping force (S-ST)

ASTM F543

Standard Specification and Test Methods for Metallic Medical Bone Screws

Scope

Static testing of bone screws



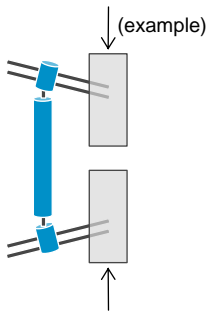
- Intramedullary nails
- Static 4-point-bending (S-4BE)
 - Dynamic 4-point-bending (D-4BE)
 - Static torsion (S-TO)
- Locking screws
- Dynamic 4(or 3)-point-bending (D-4BE)

ASTM F1264

Standard Specification and Test Methods for Intramedullary Fixation Devices

Scope

Measurement of performance-related mechanical characteristics of IMFDs and their fixation to bone



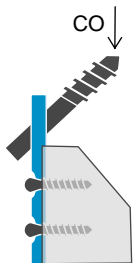
- External fixation devices
- Various types of implant specific loading cases

ASTM F1541

Standard Specification and Test Methods for External Skeletal Fixation Devices

Scope

Characterization of external skeletal fixation devices mechanical properties



- Angled fracture fixation devices
- Static compression (S-CO)
 - Dynamic compression (D-CO)

ASTM F384

Standard Specifications and Test Methods for Metallic Angled Orthopedic Fracture Fixation Devices

Scope

Measuring performance related mechanical characteristics

For further information also regarding additional test methods not covered by this summary please contact:

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