CBR Static Puncture Fixture for Geosynthetics

Built to ISO 12236 — Geosynthetics — Static puncture test (CBR test)



OVERVIEW

Static puncture (CBR) fixture for geosynthetics. The specimen is clamped between two ring plates on a pillar-supported cylinder, and a flat-ended cylindrical plunger on the crosshead is pushed through its centre, recording puncture force and plunger displacement until the plunger pushes fully through the specimen.

KEY FEATURES

- Clamping rings per ISO 12236 geometry, 150 mm opening
- 50 mm flat-ended plunger with defined edge radius
- Knob-tightened clamp ring for quick, even specimen clamping
- Pillar-supported base gives clearance for plunger push-through
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Static puncture (CBR) test, per ISO 12236
Test type / loading	Compression; plunger pushed through clamped specimen
Specimens	Circular geosynthetic specimens
Load capacity	20 kN standard; higher capacities on request
Fixture material	Stainless steel and anodized aluminium
Contact surfaces	Clamping rings with gripping faces; ground plunger
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Geotextiles and geocomposites
- Geomembranes
- Landfill and road construction
- Geosynthetic manufacturing QC

ABOUT THE STANDARD

ISO 12236 specifies a static puncture test for geosynthetics, known as the CBR test. A specimen is clamped between two rings with a 150 mm internal diameter and a 50 mm diameter plunger is pushed through it at constant speed. Puncture resistance, push-through displacement and the force-displacement curve are reported.

Ordering & customization: Specify product type and expected puncture force, clamping face style and test machine connection when ordering. Also suits ASTM D6241.

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-ISO12236-PF