



Taha Kimia Tajhiz Co.



Ofite Co.

TLF-112 Triaxial Mechanical Properties Testing System Datasheet

Cement Testing/ Compressive Strength Equipment



CEMENT TESTING EQUIPMENT

For over 30 years OFI Testing Equipment (OFITE) has provided instruments and reagents for testing drilling fluids, well cements, completion fluids, and wastewater. In addition to these product lines we also offer a range of instruments for core analysis. From our manufacturing facility in Houston, TX we provide customers all over the world with quality products and exceptional service.

Our cement product line includes innovative designs such as the Static Gel Strength Measurement Device (SGSM) which showcases our ability to develop new technology to meet customer and industry demands. We also offer Ultrasonic Cement Analyzers (UCA), Constant Speed Blenders, Automated HTHP Consistometers, and all other instruments required to evaluate cement properties according to API Specification 10.

As an independent manufacturer and supplier, OFITE has one priority, our customers.



TLF-112 Triaxial Mechanical Properties Testing System

The TLF-112 Triaxial Mechanical Properties Testing System is the first unit on the market specially designed to measure the mechanical properties of oilwell cement. It has the ability to measure compressive strength, Young's modulus, Poisson's ratio, and tensile strength of cement samples under in-situ conditions.



Features

- Physically measures the mechanical properties of set cement:
 - Compressive Strength (API Spec 10A and RP 10B2)
 - Young's modulus and Poisson's ratio
 - Brazilian Splitting Tensile Strength (ASTM C496/C496M -04)
- Temperature control up to 400°F (204.4°C) and confining pressure control up to 10,000 PSI (68.95 MPa) are available to simulate down-hole conditions with either oil or water as a pressure medium
- Accommodates cube samples up to 2.0" × 2.0" and cylindrical samples up to 2.0" in diameter and 5.0" in length
- Utilizes digital servo-controlled pressure and load for improved accuracy and stability
- Single, self-contained unit with a small footprint to save valuable floor space
- Windows®-based system control and data acquisition



Technical Specifications and Requirements

- #120-286

Specifications

- Load Frame Capacity: 112,400 lb (500 kN)
- Stroke: 4" (100 mm)
- Maximum Temperature: 400°F (204.4°C)
- Maximum Pressure: 10,000 PSI (69.0 MPa)
- Size: 15" × 24" × 72" (38 × 61 × 182 cm)
- Weight: Approximately 5,000 lb (2,268 kg)

Requirements

- Air Supply: 100 PSI (690 kPa) Recommended, 150 PSI (1,035 kPa) Maximum, ¼" NPT Connector
- Water Supply: 40 - 100 PSI, 40° - 100°F, ¼" NPT Connector
- Coolant Supply: ¼" NPT Connector
- Power Supply: 230 - 240 Volt, 50/60 Hz, 10 Amps