OFI Testing Equipment, Inc. - 11302 Steeplecrest Dr. Houston, TX 77065 USA
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Cement Static Gel Strength Measurement Device, 5000 PSI

Brand: OFI Testing Equipment, Inc.
Product Code: 120-53
Availability: Call for availability

Description
The Static Gel Strength Measurement (SGSM) device uses a vaned bob to condition a cement slurry inside a pressurized test cell and intermittently measure static gel strength at down-hole conditions. By directly measuring the forces required to initiate movement in the sample, the SGSM provides an accurate way of determining the static gel strength.

U.S. Patent No. 9,612,232

For more information, click here.

Features

- Automatically conditions the slurry in-place (1 - 150 RPM)
- Provides a direct mechanical measurement of static gel strength
- Simultaneously measures static gel strength and compressive strength (dual-cell units only)
- Intermittent or continuous measurement under high-temperature, high-pressure conditions
- Data acquisition system with automatic temperature control included
- Simple calibration and system check
- Quick clean up and turn around

Specifications

- Compatible with the Twin Cell UCA (#120-51)
- Maximum Temperature: 400°F (204°C)
- Max Operating Pressure: 5,000 PSI (138 MPa)
- Size (Including Cell): 18.25” Tall × 5.9” Diameter (46 × 15 cm)
- Weight: 47.2 lg (21.4 kg)

Requirements

- Power: 100 - 240 Volt, 50 - 60 Hz, 2 Amp
- Computer
    - Windows XP or higher
    - RS-232 Serial Port (or Serial to USB Adapter)
    - Minimum Screen Resolution: 1280 × 680

Software Features

- Data is available in real time on-screen and is also stored in an Excel® spreadsheet for easy graphical viewing and printing
- A computer running OFITE software graphs the data from both cells
- Windows®-based software

Components

- #120-51-020: Thermocouple Assembly
- #120-51-021: Fill Gauge
- #120-51-1: Test Cell Body
- #120-51-2: Cell Cap, Bottom
- #120-53-01: Vane Assembly
- #120-53-03: Cell Cap, Top
- #120-53-06: Shaft for Mag Drive
- #120-53-23: Diaphragm
- #120-53-25: Cable, 25 Pin, Male to Male, 10 Feet
- #120-53-31: O-ring for Mounting Adapter, Lower
- #120-53-32: O-ring for Mounting Adapter, Upper
- #120-53-33: Spring
- #120-53-34: Load Cell
- #120-53-38: Retainer, Snap Ring
- #120-53-42: Bushing, Graphite

- #120-53-60: Retaining Ring, Internal
- #120-53-80: Electronics Box
- #120-53-81: Wrench, Combination, 3/16"
- #120-75-10: Weight Set
- #122-073: Fuse, 2 Amp, 5 mm × 20 mm
- #123-011: O-ring for Cell
- #130-79-15: Serial Cable
- #152-37: AC Power Cord, 115 Volt
- #220-10A-EURO: Power Cord, 230V/10A European Plug
- #220-15A-USA: Power Cord, 230V/15A USA Plug

Part Number

- #120-53