

Emulsion Stability Tester



Brand: OFI Testing Equipment, Inc.
Product Code: 131-50
Availability: 21
Lead Time: 90

Description

The Electrical Stability (ES) of an oil-based drilling fluid is a property related to its emulsion stability and oil wetting ability. The OFITE Emulsion Stability Tester determines ES by applying a precision voltage-ramped sinusoidal signal across a pair of parallel flat plate electrodes that are immersed in the fluid.

Features

- API recommended sinewave circuitry
- Symmetry of the sinusoidal signal inhibits the buildup of solids on the electrode faces and enhances reproducibility.
- Push button automatic voltage ramping at a fixed ramp rate
- Includes meter, probe electrode, calibration standards, and four 9-volt alkaline batteries

Specifications

Meter

- Wave form: Sine, < 5% total harmonic distortion
- AC Frequency: 340 ± 10 Hz
- Output Units: Peak Volts
- Ramp Rate: 150 ± 10 Volts per second, automatic operation
- Minimum Output Range: 3 - 2,000 Volts (Peak)
- Trip Current: $61 \pm 5 \mu\text{A}$

- Size: 9.5" x 6.5" x 3.5" (24.1 x 16.5 x 8.9 cm)
- Weight: 2 lb 15 oz. (1.3 kg)
- Shipping Size: 11" x 11" x 7" (28 x 28 x 18 cm)
- Shipping Weight: 10 lb (4.54 kg)

Electrode

- Housing: Material resistant to oil mud components up to 220°F (105°C)
- Material: Corrosion-resistant metal
- Diameter: 0.125" ± 0.001" (3.18 ± 0.03 mm)
- Spacing (gap): 0.061" ± 0.001" (1.55 ± 0.03 mm) at 72°F (22°C)

Components

- #131-01: Probe
- #131-51: Calibration Standards, High and Low
- #147-02: Battery, 9 Volt, Alkaline

Optional

- #131-50-SP: Spare Parts Kit
- #154-01: Thermometer, 5" Stem, Metal Dial, 0° - 220°F (-10° - 100°C)
- #154-22: Thermometer, Pocket, 5" Stem, 1" Dial, 0° - 220°F

Part Number

- #131-50

Product Gallery