



Taha Kimia Tajhiz Co.



Ofite Co.

Emulsion Stability Tester Datasheet

Drilling Fluids Testing/ Resistivity Equipment



DRILLING FLUIDS 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 drilling fluids product line includes innovative designs such as the Model 900 Viscometer, which showcases our ability to develop new technology to meet customer and industry demands. We also offer Retorts, Aging Cells, Roller Ovens, Mud Balances, Filter Presses, and all other instruments required to evaluate drilling fluid properties according to API Recommended Practice 13B-1 and 13B-2.

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

Emulsion Stability Tester

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





Technical Specifications and Requirements

- #131-50 Emulsion Stability Tester

Meter Specifications

- 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 ± 5 μ A
- Size: 9.5" \times 6.5" \times 3.5" (24.1 \times 16.5 \times 8.9 cm)
- Weight: 2 lb 15 oz (1.3 kg)
- Shipping Size: 11" \times 11" \times 7" (28 \times 28 \times 18 cm)
- Shipping Weight: 10 lb (4.54 kg)

Electrode Specifications

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

Optional

- 154-01 Thermometer, 5" Stem, Metal Dial, 0° - 220°F (-10° - 100°C)
- 154-22 Thermometer, Pocket, 5" Stem, 1" Dial, 0° - 220°F
- 131-50-SP Spare Parts Kit for Emulsion Stability Tester (#131-50)
- 131-01 Probe for ES Meter
- 147-02 Battery, 9 Volt, Alkaline