



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.



Advanced Emulsion Stability Meter

The Electrical Stability (ES) of an oil-based drilling fluid is directly related to its emulsion stability and oil wetting ability. The Emulsion Stability Meter determines ES by applying a precision voltage-ramped sinusoidal signal across a pair of parallel flat plate electrodes that are immersed in the fluid. The resulting current remains low until a threshold voltage ($61 \pm 5 \mu\text{A}$) is reached. Then the current rises very rapidly. The point at which the fluid becomes conductive is the peak volts measured when the current reaches the $61 \mu\text{A}$ point.



Features Include:

- Organizes tests into Test Groups and can be exported any hard drive
- Improved probe connection prevents damage from test fluid
- Two Calibration Check Probes Included
- Embedded software enables advanced testing capabilities, test history, and remote operation
- Optional Thermocouple Available
- Manufactured in accordance with the API 13B-2
- Operates on either AC power cord, DC power adapter, cigarette lighter, four 9 volt alkaline batteries, or USB power cable



Technical Specifications and Requirements

131-56 - Advanced Emulsion Stability (AES) 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)
- Available Power Sources:
 - AC: 90 - 250 Volts, 50/60 Hz
 - DC: 24 Volts
- (4) 9 Volts Batteries
- A/B to USB Port
- Trip Current: 61 ± 5 uA
- Size: 9.25" × 7.5" × 4.5" (23.5 × 19 × 11.4 cm)
- Weight: 3 lb 15 oz. (1.36 kg)
- Shipping Size: 11" × 11" × 7" (28 × 28 × 18 cm)
- Approximate Shipping Weight: 10 lb (4.54 kg)

Optional Tools Include:

- #130-76-03 Thermocouple
- #131-56-015 Low Calibration Probe
- #131-56-016 High Calibration Probe
- #147-02 9-Volt Alkaline Battery

OFITE Data Acquisition Features Include:

