

# Emulsion Stability Tester



**Brand:** OFI Testing Equipment, Inc.

**Product Code:** 131-50

**Availability:** 32

**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:  $340 \pm 10$  Hz
- Output Units: Peak Volts
- Ramp Rate:  $150 \pm 10$  Volts per second, automatic operation
- Minimum Output Range: 3 - 2,000 Volts (Peak)
- Trip Current:  $61 \pm 5$   $\mu$ A

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