

Advanced Digital Wettability Tester



Brand: OFI Testing Equipment, Inc.

Product Code: 120-95

Availability: Call for availability

Description

Non-aqueous drilling fluids (NADF) leave an oil-wet residue on the formation that prevents cement from bonding. Spacers are often used to clean the formation surface before a cementing operation begins. Evaluating a spacer's ability to convert an oil-wet surface to water wet is necessary to ensure proper cement bonding.

The Advanced Digital Wettability Tester uses electrical resistance to determine the effects of adding water-wet spacers to oil-wet NADF. An overhead mixing blade stirs the fluid while electrodes measure resistance and temperature. As spacer is added, the change in resistance is graphed and recorded. This allows the user to compare the effectiveness of different spacers with different NADF.

Features

- Digital touchscreen display
- Intuitive user interface
- Precision motor and temperature control
- Sealed, easy-to-clean sample cup

Specifications

- Maximum Mixing Speed: 4000 rpm
- Maximum Temperature: 200°F (93°C)
- Size: 26" × 10.5" × 9" (66 × 27 × 23 cm)

- Weight: Approximately 30 lb (13.6 kg)

Requirements

- 115 or 230 VAC, 50/60 Hz

Data Acquisition Features

- Enterprise Wi-Fi connectivity
- Test results can be exported to USB drive or email
- Graphs current (?A) with respect to either total volume (mL) or percentage of spacer by volume
- Displays current (?A), elapsed time, current temperature, temperature setpoint, current motor speed, and motor setpoint

Part Numbers

- #120-95: 115 VAC
- #120-95-1: 230 VAC