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 ($61 \pm 5 \mu A$) 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 $61 \mu A$ point.



Features

- Organizes tests into Test Groups and can be exported to 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
- Included thermocouple records and displays fluid temperature
- 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



OFI TESTING EQUIPMENT, INC. 11302 Steeplecrest Dr. Houston, TX 77065 877.837.8683 www.ofite.com *Copyright OFITE 2022

Technical Specifications and Requirements

#131-56 Advanced Emulsion Stability Meter

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 ± 5 uA						
• Size:	10.67"× 9.75" × 4.86" (27 × 25 × 12 cm)						
• Weight:	6 lb (2.72 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)						
Optional							
• #130-76-03 Thermoco	ouple						
• #131-01 Probe							

- #131-51 Calibration Standard, High and Low
- #147-02 9-Volt Alkaline Battery

Software

		erSettings P		Volts	C		001000		
ate 2 FEB 2014	Time 1:35:20PM	Description ES Test Group 03		VOICS	Current 5.9	Temp 932F / 500C	RP 13B-2	Г ^	List Sort Order
2 FEB 2014	1:01:42PM	ES Test Group 03			9.6	932F / 500C	Yes		
2 FEB 2014	1:01:15PM	ES Test Group 03			9.6	932F / 500C	Yes		C Description
0 FEB 2014	2:48:06PM	ES Test Group 03			10.1	932F / 500C	Yes		· Description
6 FEB 2014	4:10:45PM	ES Test Group 03		2004	61.2	932F / 500C	Yes		
6 FEB 2014 6 FEB 2014	4:10:24PM 4:10:04PM	ES Test Group 03 ES Test Group 03		612	29.9 61.0	932F / 500C 932F / 500C	Yes Yes		E A Daniel
6 FEB 2014	4:09:49PM	ES Test Group 03		012	39.7	932F / 500C	Yes		Edit Description
6 FEB 2014	4:08:17PM	ES Test Group 03			29.5	932F / 500C	Yes		
6 FEB 2014	9:57:10AM	ES Test Group 01		613	61.0	932F / 500C	Yes		I
6 FEB 2014	9:57:02AM	ES Test Group 01		1436	61.5	932F / 500C	Yes		<u>P</u> rint
6 FEB 2014	9:56:28AM	ES Test Group 01			22.3	932F / 500C	Yes		
6 FEB 2014	9:55:46AM 9:55:05AM	ES Test Group 01		613	6.8 61.0	932F / 500C 932F / 500C	Yes Yes		
6 FEB 2014 6 FEB 2014	9:55:00AM	ES Test Group 01 ES Test Group 01		613	32.4	932F / 500C	Yes		Export to CSV
6 FEB 2014	9:53:36AM	ES Test Group 01			6.8	932F / 500C	Yes	-	
,000 ,500 ,000 500	Probe	e Voltage [V]	Pe- 200			Prob	e Curre	nt [uA]	Peak 61.2