Taha Kimia Tajhiz Co.

Ofite Co.

Model 1100 Pressurized Viscometer

Datasheet

Cement Testing/ Viscosity (Reology) Equipment

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OFITE®

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.

Model 1100 Pressurized Viscometer

For enhanced data collection, OFITE is pleased to introduce its new Pressurized Viscometer. This fully-automated system accurately determines the fluid characteristics of stimulation fluids, completion fluids, drilling fluids, and cement in terms of shear stress, shear rate, time, and temperature at pressure up to 2,500 PSI.

Using the exclusive ORCADA® software, a computer novice can operate the viscometer, and yet the system is versatile enough for advanced research and demanding test parameters. It is suitable for both field and laboratory use. A waterproof, compartmentalized case with wheels makes the unit completely portable.

Features

- **Low Shear Rates** - As low as 0.01 s-1
- **Portable** - Rugged case makes for easy transport
- **Rugged** - Designed for use in the field or laboratory
- **Corrosion Resistant** - Hastelloy-wetted parts provide extra corrosion control
- **Small Footprint** - Only 12" × 12" (30 × 30 cm). The all-in-one design includes the heating mechanism
- **Versatile** - Available in 115 or 230-volt models
- **Real Oilfield Geometry** - Uses traditional Bobs and Rotor for measurements that are easy to translate (shear stress range 0 - 4,000 dynes/cm^2)
- **Computer-Control and Data Acquisition** - Uses OFITE's exclusive ORCADA® software connected via serial port or Ethernet
- **SAFEHEAT®** - Safe, Accurate, Fast, Environmentally friendly, High Efficiency Air Transfer system. More precise control over the sample temperature without the risks of hot oil, such as spilling, splashing or flashing. U.S. Patent Number 8,739,609.

Technical Specifications and Requirements

- #130-81-C Model 1100 Pressurized Viscometer, 115 Volt
- #130-81-1-C Model 1100 Pressurized Viscometer, 230 Volt

Specifications

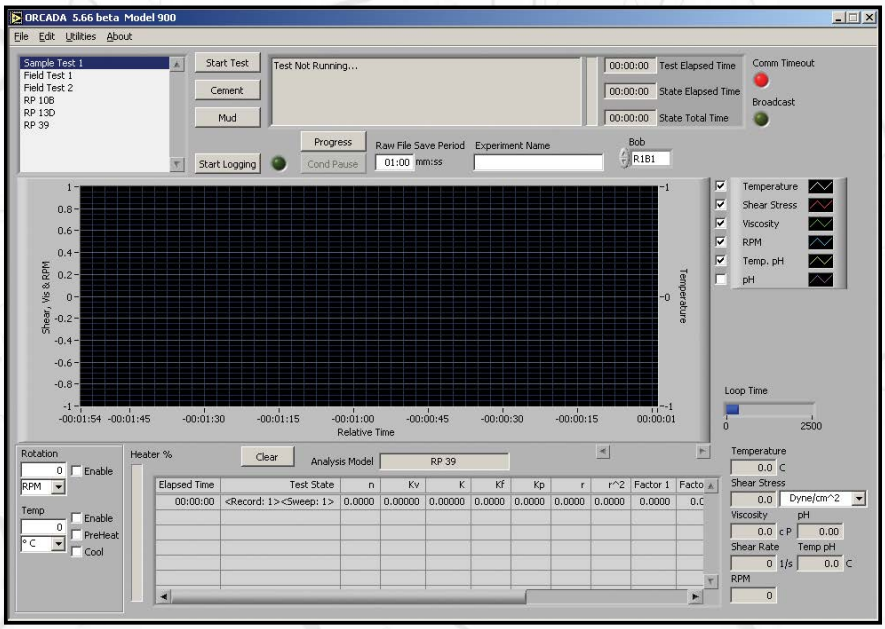
- Maximum Pressure: 2,500 PSI (17.2 MPa)
- Maximum Temperature: 500°F (260°C)
- Motor Speeds: Variable from .01 - 1,000 RPM
- Shear Rate Range: .01 - 1,002 sec^{-1}
- Size: 14" × 13" × 30" (36 × 33 × 76 cm)
- Weight: 85 lb (37.6 kg)

Requirements

- Power: 115 or 230 Volt AC, 50/60 Hz
- Nitrogen: Up to 2,500 PSI (17.2 MPa)

Software Features

- Write programs based on time, temperature and shear rates
- Multiple calibration points: low and high shear rates
- Computer automatically stores data
- Multiple rheological programs available



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