



## 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.

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## Thermocup

The Thermocup is designed for controlling the temperature of a mud sample while taking readings with a viscometer. The holes in the stage of OFITE Viscometers have been positioned to hold the heated cups at a 45° angle to the line of the instrument for better accommodation of thermometers and power cables. A removable stainless steel cup (optional) makes cleaning safer and easier.



Without Removable Cup



With Removable Cup

## Features

- Anodized finish provides better heat transfer than paint
- Strain relief on the power cable protects wiring from damage

## Technical Specifications and Requirements

- |              |  |
|--------------|--|
| • #130-38-20 | Without Removable Cup, 115 Volt              |
| • #130-38-25 | Without Removable Cup, 230 Volt              |
| • #130-38-30 | With Removable Stainless Steel Cup, 115 Volt |
| • #130-38-35 | With Removable Stainless Steel Cup, 230 Volt |

### Specifications

- Maximum Temperature: 200°F (93.3°C)
- Size: 3" x 4" x 4.5" (8 x 10 x 11 cm)
- Weight: 2.6 lb (1.2 kg)

## Optional

- #130-38-7 Cup for Thermocup, Stainless Steel

## Components:

- #130-26 Heating Element, 150 Watt, 115 Volt
- #130-26-1 Heating Element, 150 Watt, 230 Volt
- #130-31 Thermostat, 50 - 300°F
- #130-38-2 Red Lens
- #130-38-3 Lamp
- #130-38-5 Power Cord
- #130-38-7 Stainless Steel Cup\*
- #130-38-8 Gasket (Fish Paper)
- #130-38-9 Power Cord for TC Thermocups
- #135-18 Socket Set Screw
- #135-43 Indicator Lamp Base
- #154-00 Metal Thermometer, 5", 0° - 220°F
- #164-34 Plug, 230 Volt
- #165-40-3 Power Cord for OFITE Thermocups,  
230 Volt
- #171-32-1 Knob

\*The stainless steel cup is only available with the following thermocups:

- #130-38-30
- #130-38-35

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## Thermocup

- #130-38-20: 115-Volt
- #130-38-25: 230-Volt

- #130-38-30: With Removable Stainless Steel Cup,  
115 Volt
- #130-38-35: With Removable Stainless Steel Cup,  
230 Volt

## Instruction Manual

Updated 9/18/2013  
Ver. 1.1

**Introduction:**

Thermocups are designed for controlling the temperature of a mud sample while taking readings with a rheometer or viscometer. Normal heat-up time is 15 minutes and the pilot light turns off when the well reaches the set temperature.

Drilling fluid has a low thermal conductivity, so it must be agitated in order to reach a uniform temperature within a reasonable length of time. The holes in the shelf of the OFITE viscometers have been positioned to hold the heated cups at a 45° angle to the line of the instrument for better accommodation of thermometers and power cables.

For extra convenience and portability, #130-38-30 and #130-38-35 thermocups contain removable stainless steel cups for holding the fluid.

**Procedure:**

1. Plug the cord into the proper voltage outlet (115 or 230 Volts AC), and place a stem thermometer in the hole on the side of the heating well.
2. Turn the thermostat clockwise to about three-fourths the total range (approximately 100°F or 38°C). Allow 15 minutes for heat up. The pilot light will turn off when the well reaches the set temperature.
3. After the thermocup has pre-heated, place the test fluid in the well. Stir the fluid frequently and also check the fluid temperature with the thermometer. When the fluid approaches the desired test temperature, turn the thermostat back ¼ turn to avoid overheating.
4. Place the assembly on the base of the viscometer. The holes in the shelf of the OFITE viscometer have been relocated to hold the cup at a 45° angle to the line of the instrument to give clearance for a 5 inch metal stem thermometer.
5. Raise the shelf or lower the instrument to the proper depth as indicated by the scribed line on the rotor sleeve. Re-check the temperature and record the viscometer dial readings. A temperature adjustment may be necessary if the instrument bob and rotor are cold.

**Maintenance:**

Clean the thermocup thoroughly after each use. If your thermocup has a stainless steel cup, remove it and wash it with soap and water. Otherwise, wash the thermocup well with soap and water, being careful not to immerse the thermocup in water.

**Caution:**

1. Do not leave viscometer rotor immersed for long periods in the mud as vapors will travel up into the bearings and condense, causing corrosion.
2. Never heat fluid over 200°F (93°C).
3. Never immerse thermocups in water when cleaning.