



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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Hand Crank Rheometer

The Hand Crank Rheometer (#132-00) is a direct-indicating, manually operated, rotational viscometer. The instrument is powered by a hand crank, which drives the spindle through a precision gear train. The shift cam selects between fixed speeds of 300 and 600 RPM. A Knob on the hub of the shift cam determines gel strength.



Features

- Suitable for field and lab use
- Ultimate in portability
- Reliability
- Small footprint if used in laboratory

Technical Specifications and Requirements

Specifications

- Size: 9" x 4" x 6.5" (23 x 10 x 17 cm)
- Weight: 8 lb (3.6 kg)

Intro

The OFITE Rheometer is a direct-indicating, manually operated, rotational viscometer. The instrument is powered by a hand crank, which drives the spindle through a precision gear train. The shift cam selects between fixed speeds of 300 and 600 RPM. A Knob on the hub of the shift cam determines gel strength.

Description

During operation, fluid is contained in the annular space between two concentric cylinders. The outer cylinder, or rotor, is driven by the hand crank. The inner cylinder, or bob, is restrained by a torsion spring. A dial attached to the torsion spring indicates bob displacement due to friction. The instrument constants have been adjusted so that plastic viscosity and yield point can be calculated using the 300 and 600 RPM readings.

Components

#130-41	Beaker, 400 mL, Polypropylene, Nalgene
#132-01	Frame
#132-02-1	Plastic Cover
#132-04	Jewel
#132-05	Base
#132-09	Inside Leg with Groove
#132-10	Inside Leg without Groove
#132-11	Leg Spring; Qty: 2
#132-12	Left Leg Outside
#132-13	Leg Lock Ring
#132-14	Leg Lock Nut
#132-15	Right Leg Outside
#132-16	Leg Cap
#132-17	Leg Cap Screw; Qty: 2
#132-18	Key
#132-19	Stop Spring
#132-20	Governor Body
#132-21	Brass Washer; Qty: 8
#132-22	Drive Spindle
#132-23	Weight; Qty: 4
#132-24	Pressure Plate
#132-26	Thrust Collar
#132-28	Control Rod
#132-29	Control Spring; Qty: 6
#132-30	Gear Block
#132-31	Drive Shaft
#132-32	Drive Shaft Nut
#132-33	Drive Shaft Spacer Set
#132-34	Drive Shaft Pinion
#132-35	Idler Pinion
#132-36	Idler Gear
#132-37	Crank Shaft
#132-38	Crank Shaft Gear
#132-39	Idler Shaft
#132-40	Shift Housing
#132-41	Shift Pin; Qty: 2
#132-42	Speed Nut
#132-43	Shift Cam
#132-44	Gel Knob
#132-45	Crank
#132-50	Rotor, Drive
#132-51	Bevel Gear (Pair)
#132-52	Spindle Bushing
#132-56	Rotor, R1, 303 Stainless Steel
#132-57	Shield
#132-58	Bob, B1, 303 Stainless Steel
#132-59	Bearing Retainer
#132-60	Dial
#132-61	Torsion Body

#132-62 Stop
#132-64 Lock Collet and Bushing
#132-66 Torsion Shaft
#132-67 Torsion Spring Assembly
#132-68 Shielded Bearing; Qty: 2
#132-69 Bearing, $\frac{3}{8}$ " \times $\frac{7}{8}$ " (30730); Qty: 2
#132-70 Bearing, $\frac{1}{4}$ " \times $\frac{5}{8}$ "; Qty: 2
#132-71 Bearing, 20 mm \times 42 mm; Qty: 2
#132-73 Internal Locking Ring; 1 $\frac{7}{8}$ "
#132-74-1 Lock Ring
#132-75 Internal Locking Ring; $\frac{1}{2}$ "
#132-76 External Locking Ring; $\frac{25}{32}$ "
#132-77 Bushing; $\frac{1}{8}$ " \times $\frac{1}{4}$ " \times $\frac{1}{4}$ "
#132-78 Bushing; $\frac{1}{4}$ " \times $\frac{3}{8}$ " \times $\frac{1}{4}$ "
#135-02 External Retainer Ring
#135-23 Upper Cap Screw; Qty: 2
#170-44 Rubber Foot; $\frac{1}{2}$ "; Qty: 4

Optional:

#132-06 Transport Case with Foam Insert
#132-58-1 B2 Bob
#132-58-2 B3 Bob
#132-58-4 B5 Bob
#132-58H Hastelloy (B1) Bob

#132-00-SP Spare Parts Kit:

#132-59 Bearing Retainer; Qty: 4
#132-64 Lock Collet and Bushing
#132-68 Bearing, Shielded
#132-69 Bearing, $\frac{3}{8}$ " \times $\frac{7}{8}$ ", Qty: 2
#132-70 Bearing, $\frac{1}{4}$ " \times $\frac{5}{8}$ "; Qty: 4
#132-71 Bearing, 20 mm \times 42 mm, Qty: 2
#132-75 Internal Locking Ring; $\frac{1}{2}$ "; Qty: 4
#132-80 Calibration Fluid, 100 cP, 16 oz
#132-81 Calibration Fluid, 50 cP, 16 oz