DRILLING FLUIDS EQUIPMENT For over 30 years OF! Testing 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.



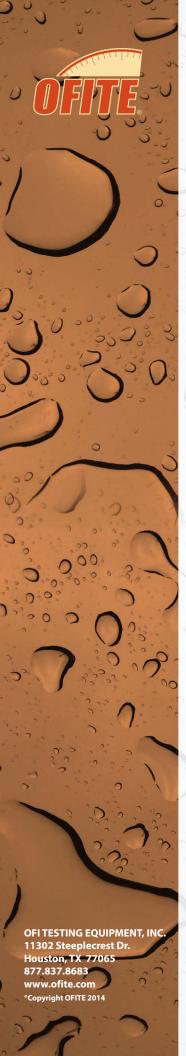
Retort, 10 mL, Removable

The Retort provides a method for measuring the percentage (%) of oil and water, and for estimating both suspended and dissolved solids contained in a sample of water-based or oil-based muds and cuttings. Knowledge of oil, water, and solid content is fundamental to proper control of mud properties when considering oil/water ratios, rheology, density, filtration, and salinity. Knowledge of solids in drilling fluids is essential to evaluation of viscosity control and solids control equipment.



Features

- Ultimate in portability
- Proven test procedures
- Reliability
- Small footprint if used in laboratory
- Accurate, tamper proof temperature controller
- Ideal for use in portable kits



Technical Specifications and Requirements

#165-00 115 Volt#165-10 230 Volt

Specifications

• Size: $3.5" \times 4" \times 11.0" (9 \times 10 \times 28 \text{ cm})$

Weight: 7 lb 9 oz (3.4 kg)

Maximum Temperature: 1000°F (537° C)
 Temperature Control: Fixed Thermostat

· Cell Capacity: 10 mL

Heating Capacity: 350 Watts

Power Requirement: 115 Volt at 3 Amp or 230 Volt at 1.5 Amp, 50/60 Hz

Accessories

•	#122-074-1	Fuse, 5 Amp, 5 mm × 20 mm
1	#153-03	Graduate Brush, ½" × 8"
	#153-18	Graduated Cylinder, 10 mL × 3/10 mL
	#165-33	Lid for Sample Cup
	#165-34	Spatula
•	#165-41	Corkscrew
) -	#165-42	Steel Wool, Grade 000 Extra Fine, Package of 4 Pads
	#165-43	Pipe Cleaner
-	#165-44-1	High-Temperature Thread Lubricant, 4 oz
•	#280-00	Wetting Agent

Optional Tools

- #165-05 10 mL Receiver Tube, 2-scales, 0 $100\% \times 0.1$, 0 $10 \text{ mL} \times 0.1 \text{ mL}$, with Certificate
- #165-30 20 mL Retort Chamber with Lid (functional with 10 mL Retort Condenser)

Intro

The retort provides a means for separating and measuring the volumes of water, oil, and solids contained in a sample of drilling fluid. A known volume of sample is heated to vaporize the liquid components which are then condensed and collected in a graduated receiver tube. Liquid volumes are determined from reading the oil and water phases on the graduated cylinder. The total volume of solids, both suspended and dissolved, is obtained by noting the difference of the total sample volume versus the final liquid volume collected. Calculations are necessary to determine the volume of suspended solids since any dissolved solids will be retained in the retort. Relative volumes of low-gravity solids and weight materials may also be calculated.

Specifications

Size: $3.5" \times 4" \times 11" (9 \times 10 \times 28 \text{ cm})$

Weight: 7 lb 9 Oz. (3.4 kg)

Maximum Temperature: 1000°F (537°C)

Temperature Control: Standard - Electronic Fixed Temperature Control

Cell Capacity: 10 mL

Heating Capacity: 350 Watts

Power Requirement: 115 Volt at 3 Amp or 230 Volt at 1.5 Amp 50/60 Hz

Equipment

Sample Cup: 10 mL capacity

Condenser: Cools the water and oil vapors below their vaporization temperature prior to leaving the condenser chamber. 464 grams.

Heating Element: Raises the temperature of the sample above its vaporization point within API Specifications, without causing the solids to boil over. 350 watts.

Thermostat: Limits the temperature of the retort to $930^{\circ} \pm 70^{\circ}$ F.

Liquid Receiver: Graduated cylinder or tube, transparent and inert to oil, water, or salt solutions and temperatures of up to 90°F (32°C).

Fine Steel Wool: No. 000 Steel Wool.



Do not use liquid steel wool or coated steel wool substitutes.

Grease: Never-Seez[®]. Used for a thread seal and lubricant at high temperatures.

T-handle Drill: Used for cleaning the retort chamber and condenser passage.

Pipe Cleaner: Used for cleaning the retort chamber and condenser passage.

Spatula: Shaped to fit the inside dimensions of the sample cup.

Components

Included:

#152-37	AC Power Cord (115 Volt)
#152-38	AC Power Cord (230 Volt)
#165-31	Retort Chamber, 10 mL
#165 32	Condenser

#165-32 Condenser

#165-46 Clip for Condenser

Replacement Parts:

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	#122-074-1	Fuse, 5 Amp, 5 mm × 20 mm (115 Volt)
	#122-073-1	Fuse, 3 Amp, 5 mm × 20 mm (230 Volt)
	#130-79-53-0990	Thermostat (115 Volt)
	#130-79-54-0990	Thermostat (230 Volt)
	#164-13	Insulator Block, Top
	#164-14	Insulator Block, Bottom
	#164-15	Insulator Block, Cover
	#164-19-1	Retort Adapter
	#165-00-10	Thermocouple, Type J
	#165-14-005	Insulation Material
	#16E 2E	Heating Floment (115 \/olt)

#165-35 Heating Element (115 Volt) #165-36 Heating Element (230 Volt)

#165-45 Neon Lamp, Red

Optional:

#153-03	Graduate Brush, ½" × 8"
#153-18	Graduated Cylinder, 10 mL
#165-14-13	T-handle Drill
#165-34	Spatula
#165-41	Corkscrew
#165-42	Steel Wool; Grade 000. Extra Fine; Package of 4 Pads
#165-43	Pipe Cleaner
#165-44-1	High-Temperature Thread Lubricant; 4-oz. Tube
#280-00	Wetting Agent; 1 oz.

Optional: #165-00-1-SP Spare Parts Kit, 115 Volt

Part Number	Description	Quantity
#122-074-1	Fuse, 5 Amp, 5 mm × 20 mm	5
#153-03	Brush; Graduate ½" × 8"	1
#153-18	Graduated Cylinder; 10 mL × 1/10 mL	1
#165-05	10-mL Receiver Tube; Special for Oil Mud; 0-100%, with Certificate	2
#165-33	Lid for 10-mL Sample Cup	1
#165-34	Spatula	1
#165-41	Corkscrew	1
#165-42	Steel Wool; Grade 000. Extra Fine; Package of 4 Pads	16
#165-43	Pipe Cleaner	6
#165-44-1	High-Temperature Thread Lubricant; 4-oz. Tube	1
#280-00	Wetting Agent	1

Optional: #165-10-1-SP Spare Parts Kit, 230 Volt

Part Number	Description	Quantity
#122-073-1	Fuse, 3 Amp, 5 mm × 20 mm	5
#153-03	Brush; Graduate ½" × 8"	1
#153-18	Graduated Cylinder; 10 mL × 1/∞ mL	1
#165-05	10-mL Receiver Tube; Special for Oil Mud; 0-100%, with Certificate	2
#165-33	Lid for 10-mL Sample Cup	1
#165-34	Spatula	1
#165-41	Corkscrew	1
#165-42	Steel Wool; Grade 000. Extra Fine; Package of 4 Pads	16
#165-43	Pipe Cleaner	6
#165-44-1	High-Temperature Thread Lubricant; 4-oz. Tube	1
#280-00	Wetting Agent	1



Spare parts listings are intended to be used as a guide only as individual usage will vary. Running a retort test twice a day will require more parts than running a test once a week.