



FOAMING CHARACTERISTICS OF LUBRICATING OIL - ASTM D892-(FOUR TEST CYLINDERS)-(TWIN JARS)-

Complies with following International Standards

ASTM - D892, IP - 146, ISO - 6247

Construction Details

The complete assembly consists of following parts and accessories.

1) Foaming Bath Apparatus - (Glass jar with four Test Cylinders and separate Heating & Cooling arrangement)

- Consists of constant temperature transparent glass heating jar bath
- Heating glass jar will be of Heat resistant material having height of 450 mm and Diameter of 300 mm
- The transparent heating test bath will be provided with top cover
- **One Tank cover will be having two hole of Ø 125 mm, which allows 1000 ml cylinders to get through it**
- The heating glass jar is transparent and clear enough to permit observation of the graduations on the cylinder.
- Tactfully designed Stainless steel clamps, incorporated within tank cover, to hold the test cylinders in place.
- Microprocessor PID control provides quick temperature stabilization without overshoot and the bath is protected by an over temperature control circuit.
- Dual LED display provides actual and set point temperature values in °C/°F format.
- **One glass jar is fitted with cooling coil, to which cold water will be circulated from the external chiller to conduct foaming operation on 24 °C temperature and another glass jar will be fitted with heating elements to conduct foaming experiment on 93.5 °C Temperature**
- Heating supplied by an armored stainless steel heater in the test bath, to conduct the test on 93.5 °C
- Automatic boost heating
- Automatic high temperature & low liquid level safety cut-off.
- Supplied with stirrer to maintain uniform temperature distribution throughout the bath.
- **Both the Bottom bases house MICROPROCESSOR BASED DIGITAL PID controllers with over-temperature alarm and probe PT - 100 temperature sensor along with air compressor pump for supplying adequate air through flow meter to diffuser ball.**

2) Test cylinders

- No. of cylinders supplied : 04 Numbers
- Material of construction : Borosilicate transparent
- Capacity : 1000 ml
- Graduation : 1-1000 ml



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- Cylinders will be circular at the top
- Cylinders will be fitted with a rubber stopper, having one hole at the center for the air-inlet tube and a second hole off-center for an air-outlet tube.

3) Air (Gas) diffuser Stone

- Imported Gas Diffuser stone
- No. of Stones Provided : 04 Number
- Diameter : 25.4-mm (1 inch)
- Maximum pore diameter : Not greater than 80 Microns
- Material of construction : Made of fused crystalline alumina grain
- Gas diffusers are attached to air-inlet tubes by a suitable means.

4) Rubber tubing

- Supplied with 3 meter long rubber tubing for connection to gas diffuser stone and Air supply pump

5) Flow meter (Rotameter)

- No. of flow meter : 02 numbers
- Make : Of standard reputed make with calibration certificate
- Air flow rate : 94 ± 5 mL/min through the gas diffuser.

6) Air compressor (Pump)

- No. of pumps supplied : 02 independent (oil free) blowing pumps
- Connected to : Flow meter to maintain air flow rate at 94 ± 5 mL/min

Note

1) Low temperature of 24°C can be achieved by adding ICE into the water or placing the whole equipment in the Air conditioning room & maintained the above temperature OR by externally circulating the chilled water. Copper tubing provided to facilitate water circulation (Chiller quoted separately).

2) Client must arrange external chiller to conduct the test on 24°C temperature or can buy extra from us.

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