



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

FOAMING CHARACTERISTICS OF LUBRICATING OIL - ASTM D892 - TWO TEST CYLINDERS, SINGLE JAR



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 TWO Test Cylinders and combined 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
- Tank cover will be having one hole of $\varnothing$ 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 $^{\circ}\text{C}/^{\circ}\text{F}$ format.
- Cooling coil is provided in the same bath for circulating cooling water from the external chiller to conduct the foaming operation on 24°C temperature. (External chiller has to be purchased optionally at extra cost).
- 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.

- Bottom base, houses a MICROPROCESSOR BASED DIGITAL PID controller 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 : 02 Numbers
- Material of construction : Borosilicate transparent
- Capacity : 1000 ml
- Graduation : 1-1000 ml
- 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 : 02 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 : 01 independent (oil free) blowing pumps
- Connected to : Flow meter to maintain air flow rate at 94 ± 5 mL/min

Note

- **Low temperature of 24 °C can be achieved by adding ICE into the water or by placing the whole equipment in to the Air conditioning room & maintained at the above temperature OR by externally circulating the chilled water. Copper tubing is provided to facilitate the water circulation (Chiller quoted separately).**
- **Client must arrange external chiller to conduct the test on 24 °C temperature or can buy extra from us.**
- **ASTM D892 Compliant Gas Diffuser Stone is imported & It will be supplied without calibration certificate. NIST Traceable Calibration Certificate will be charged at extra cost of Rs 80,000/-per piece. Please take note of it.**

Optional accessories at extra cost:

1. Low Temperature Water bath - +5°C To 50°C - 20 Liters Capacity: **Price on request**
2. Glass Thermometer - (-20°C To 102°C X 0.2°C) Density Wide Range - (ASTM 12C / IP 64C): **Price on request**
3. Stop Watch - Digital: **Price on request**

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