

### Compliance Standards

ASTM D972, IP 183

### Purpose:

This test method covers the determination of the loss in mass by evaporation of lubricating greases and oils for applications, where evaporation loss is a factor. Evaporation loss data can be obtained at any temperature in the range from 100 to 150°C (210 to 300°F).

### Details

The evaporation loss test apparatus consists of Stainless Steel Bath, Flowmeters, Evaporation cell and Air supply system

- Bench-top stainless steel bath with drain valve.
- Double walled construction
- Inner chamber is fabricated from Stainless Steel S.S. - 304 Grade material
- Outer body is also fabricated from Stainless Steel material S.S. - 304 Grade material
- Gap between inner chamber and outer body is filled with High efficiency thermal insulation to avoid thermal leakage
- Chamber of the bath is fitted with high efficiency heating elements to achieve the precise bath temperature.
- Bath is also fitted with motorized Electric stirrer with stainless steel shaft and propeller.
- Bath is also equipped with Stainless steel cell support, where, Evaporation cells will be placed.
- High precision flow-meters with needle valve will be fitted in front/side of the bath to provide controlled air flow to the evaporation cells.
- Calibrated flow meters will supply heated air at a controlled flow rate of 2 liters/min.
- Bath temperature will be controlled by Microprocessor based PID Temperature controller cum indicator
- Operates on 220 Volts, 50 Hz, Single Phase, AC Supply.
- Power consumption 2000 W.
- Supplied complete with 02 Nos Evaporation Cells.



### Evaporation cell

Stainless steel cylindrical body with neck flange and three cell connections for the tight cover closure double bottom with 3.17 mm orifice

Brass pre-heating coil with cell connections and air inlet tube

Stainless steel cover with neoprene gaskets fitted with 3 blocking screws

Central air flow-off connected to a 18/8 stainless steel tube with lower threaded junction for connection with the test cup

### Supplied complete with following accessories

- Evaporation cell for Oil Test
- Evaporation cell for Grease Test
- Spatula

**Notes:** Glass thermometers shall be procured at extra cost. Refer to the optional accessories.

Note: Specifications are subject to change.