

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.