



## EVAPORATION LOSS OF LUBRICATING GREASE AND OIL-02 CELLS-ASTM D972, IP 183

### 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

#### Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,  
Near Gujarat College, Ellisbridge,  
Ahmedabad-380 006.  
Phone : (079) 6621 1234  
Website : [www.eieinstruments.com](http://www.eieinstruments.com)

#### Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa,  
Singarva-Kathwada Road,  
Kathwada, Ahmedabad-382 430.  
Phone : (079) 6604 0660 • Fax : (079) 6604 0600  
E-mail : [info@eieinstruments.com](mailto:info@eieinstruments.com)

GST TIN No. : 24AABCE4018L1ZU  
I.T. PAN No. : AABCE 4018L  
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- 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**

1. Evaporation cell for Oil Test
2. Evaporation cell for Grease Test
3. Spatula

**Notes**

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

**Technical Specification**

- Temperature range : 50 °C-250 °C
- Temperature Display : LED Display
- Temperature controller : Microprocessor based Auto-Tube PID Digital Temperature controller cum indicator
- Temperature accuracy : ± 0.5 °C or better
- Temperature Resolution : 0.1 °C
- Temperature sensor : PT-100 Type RTD Sensor
- Heater watts : 1500 watts (1.5 Kw)
- Power Supply : 230 volts, 50 hz, single phase, ac supply

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