



THERMAL STABILITY OF HYDRAULIC OIL - (ASTM D2070, IS 11656)

Compliance Standards

ASTM D2070, IS 11656

Summary of Test Method

A beaker containing test oil, copper and iron rods is placed in an aluminum block in an electric gravity convection oven for 168 hours, at test temperature of 135°C. At the completion of the test, the copper and steel rods are rated Visually for discoloration and the oil is analyzed for the quantity of sludge.

Salient Features

Complete set-up consists of essential accessories such as **Oven, Aluminum block, 250 mL Griffin beakers, Copper test specimen, Steel test specimen**. Other optional accessories will be provided at extra cost.

Essential accessories at extra cost :

- Silicon carbide abrasive 320 grit with cloth backing @ **Rs. 450.00**
- No. 41 Whatman filter paper, 47 mm diameter, pack of 100 @ **Rs. 3650.00**
- Millipore filter, 8 micron Type SC, 47 mm diameter, pack of 100 @ **Rs. 3650.00**
- Cincinnati Milacron color chart @ **Rs. 6500.00**
- 25 mL pipette @ **Rs 6500.00**

Technical Specification

• Hot air oven

• Circuit Wiring	: Internal circuit wiring as per CE Norms
• Working size	: 60 x 60 x 60 cm (H x W x D)
• No Of Shelves	: 03 Numbers
• Rating	: 2.5 KW
• Temperature Range	: 50 °C to 250 °C
• Control Accuracy	: ± 1°C or better
• Operation on	: 230 Volts, 50 Hz, Single Phase, AC Supply
• Exterior body	: Mild steel material



Corporate Office:

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Calibration Laboratory:

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GST TIN No. : 24AABCE4018L1ZU
I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
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TAN No. : AHME00572F



- Inner chamber : Made of Stainless Steel S.S. 304 - mirror polished material
- Paint : Powder coating
- Insulation : 65mm high density Glass wool insulation to offer minimum heat loss
- Heating element : Fitted all three sides, ensuring uniform temp distribution
- Temperature Control : Microprocessor based Auto tune PID Digital temperature indicator cum controller
- Heater : Sealed and enclosed heaters to working chamber for minimum heat loss
- Door lock : Special heavy duty Stainless steel lock and door hinges with spring and roller mechanism
- Air ventilation : Adjustable air ventilation mounted at top
- Forced Air circulation : With built in forced air circulation arrangement for uniform heat distribution inside the working chamber

• Aluminum Block

- Overall size : 304.8 mm Dia
- Thickness : 139.7 mm
- Edge thickness : 19.05 mm
- Recess diameter : 266.7 mm
- Recess depth : 44.45 mm
- Diameter of hole : 76.20 mm
- Depth of hole : 69.85 mm
- Distance from center to hole center : 88.90 mm

• Griffin Beaker

- Capacity : 250 ml
- Material : Borosilicate

• Copper test specimen

- Copper : UNS C11000, 99.9 % pure electrolytic tough pitch copper
- Diameter : 6.35 mm
- length : 7.6 mm

• Steel test specimen

- Carbon Steel : AISI W 1 1 % carbon steel
- Diameter : 6.35 mm
- length : 7.6 mm

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