



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

RUST PREVENTION TEST APPARATUS-(ASTM D665, ASTM D5534, ASTM D3603)



Compliance with following International Standards:

IP 124, ASTM D665, ASTM D3603, ASTM D 5534, NACE TM0172

Standard Test Method for Rust-Preventing Characteristics of Inhibited Mineral Oil in the Presence of Water

Brief construction details:

- Inner chamber of waterbath is constructed from 16 SWG, stainless steel material with drain cock.
- Outer body made of 20 SWG, CRCA sheet duly powder coated.
- Thermal insulation provided in between the walls to prevent loss of temperature.
- Constant temperature bath is fitted with motorized stirrer to maintain temperature at $60\text{ }^{\circ}\text{C} \pm 0.5\text{ }^{\circ}\text{C}$
- Fitted with immersion heaters to dissipate uniform heating through out the chamber
- Temperature, speed and time are digitally indicated.
- Microprocessor based PID temperature controller with two displays for set and process value.
- PT-100 sensor with $0.1\text{ }^{\circ}\text{C}$ resolution on digital display.
- The bath can accommodate at least four test samples at a time with combined motor for each position
- Motor is mounted on ball bearing, driven by belts and pulleys.
- Supplied complete with 4 Nos test Beaker (400 ml) of Borosilicate glass with dimension as per ASTM standard.
- The test beakers are securely held in the bath by spring clips and are fitted with acrylic covers, dimension as per ASTM standard.

Details about Timer & Stirrer:

- The unit is having motorized stirrer with digital RPM meter with proximity sensor to monitor the stirring speed.
- Stirrer rotates on its longitudinal axis at $1000 \pm 50\text{ rpm}$.
- Stirrer will be made of stainless steel as per standard dimension given in the method.

- Test rod is also made of steel conforming to grade 10180 of specs A 108 BS 970 (Part 1:1983-070M20) with dimension as per standard.
- In-built timer is provided in apparatus which stops the stirrer at pre-set time.

Following accessories are supplied along with the equipment

- Thermometer ASTM 9C, ASTM 20C & ASTM 21C (1 each) : **3 numbers**
- Steel Test Specimen : **4 numbers**
- Teflon holder (PTFE) for D665 : **4 Numbers**
- Test Beakers (400ml) with covers : **4 numbers**
- Beaker cover (PTFE) for ASTM D665 : **4 Numbers**
- Grinding & Polishing Device : **1 Number**
- Chuck for polishing test specimen : **1 Number**
- Auxiliary Stirrer Blade for ASTM D665 Procedure C (heavier than water fluids) : **1 Number**

Technical Specification

- Temperature range : Ambient to 100 °C ± 0.5 °C
- Stirrer speed : Up to 1000 rpm, ± 50 revolution/minute
- Power Supply : 230 Volt + 10 %, 1 phase, 50 Hz

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

Calibration Laboratory:

Survey No. 1098, Nr. Mahakali Temple,
Opp. Primary School, Village Kubadthal,
Tal-Daskroi, Ahmedabad-382 433.
Phone: (079)-3520 8300
E-mail : info@eieinstruments.com

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