



Compliance Standards:

ASTM D1264, D4950; IP 215; FTM 791-3252

Test Method:

A grease sample is packed in a ball bearing and subjected to a steady water stream under controlled test conditions. The percentage of grease washed out in a one hour period is determined by weight.

Details of apparatus:

Consists of following main parts and accessories

1) Suitable Water Tank:

- Suitable tank to hold about 750ml of water with suitable heating arrangement
- Inner chamber manufactured from Stainless Steel S.S. - 304 Material
- Exterior body is fabricated from Mild Steel Material
- Glass-wool insulation between inner chamber and exterior body
- Fitted with rated capacity heaters to bring water temperature to test condition @38 °C and 79 °C
- Also, fitted with PT-100 Bath temperature sensor
- Bath temperature is controlled by microprocessor based AUTO-TUNE PID Digital Temp Controller Cum Indicator
- Bath control panel is also equipped with Digital Timer and Digital RPM Indicator for indicating motor revolution of 600 ± 30 RPM
- The bearing rotational speed is $600 + 30$ rpm.
- Internal drainage connection of the bath
- Low voltage circulation water pump, which supplies water to JET TIP to spray the water @ 5 ml/sec (300 ml/min \pm 10%) via 1mm capillary
- Bypass tube and recovery system with external drain tap
- The water containing washed out grease is collected in the tank, filtered and recycled during the test.
- Manual flow regulator valve
- Provided with necessary tools and fixtures for assembling of bearing housing.

2) Ball Bearing:

- Supplied complete with ASTM Test bearing size 6204

Note: Specifications are subject to change.

3) Bearing housing and shield:

- With dimension as per ASTM D1264

4) Thermometer:

- ASTM 15C
- Range : -2 °C to +8 °C

5) Flow meter:

- To supply water at 5 ml/sec (300 ml/min) flow rate to Jet Tip.

Technical Specifications	
Temperature Range	Ambient to +80 °C
Temperature Resolution	0.1 °C
Temperature Accuracy	± 0.5 °C
Temperature sensor	PT-100 Temperature probe
Temperature controller	Microprocessor based AUTO-TUNE PID Controller
Wet heater watts	600 Watts
Bearing rotational speed	600 ± 30 RPM
Tank capacity	5-10 Liters (Depends on bath design)
Timer	0-99 minutes
Operating Voltage	230 Volts, 50 Hz, Single Phase, AC Supply

Note: Specifications are subject to change.