



Automatic Analysers: NewLab Range

NewLab 800 Low-temperature Torque



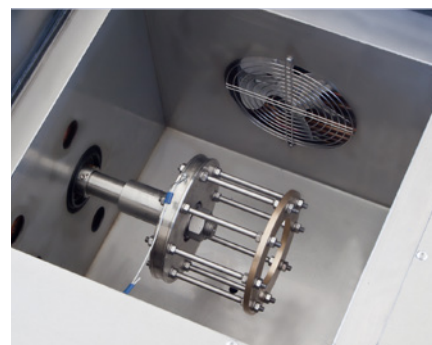
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Newlab 800: Low-temperature Torque, testing chamber
Best raw materials and simplicity in construction, strong points that make it appreciated.

ASTM D1478 ASTM D4693

Subject

ASTM D1478: Low-temperature Torque of Ball Bearing Grease.

This test method covers the determination of the extent to which a grease retards the rotation of a slow-speed ball bearing by measuring starting and running torques at low temperatures, below -20°C (0°F).

ASTM D4693: Low-temperature Torque of Grease Lubricated Wheel Bearings.

This test method determines the extent to which a test grease retards the rotation of a specially-manufactured, spring-loaded, automotive-type wheel bearing assembly when subjected to low temperatures. Torque values, calculated from restraining-force determinations, are a measure of the viscous resistance of the grease.

This test method was developed with greases giving torques of less than 35 N·m at 40°C.

Automatic Instrument for the Determination of Low-Temperature Torque of Greases

- Floor type instrument with steel structure painted with anti-epoxy products.
- Double stage refrigerating unit without CFC gases located in the bottom part of the structure - test cabin able to grant a working temperature of -73 °C.
- Internal double cabin made in stainless steel with high diffusion and homogeneity cooling system.
- Upper inspection door made in stainless steel with high insulation material.
- Geared motor, Ball-cage rotating at 1 rpm, digital dynamometer with easy connection system.
- Managed by a touch screen panel pc using Linetronic operating software running on Windows basis with following characteristic:
 - TFT/LCD 12";
 - 40 Gb HD;
 - 1024 × 768 resolution and 16 M colors;
 - 2 × USB ports;
 - Able to store more than 60'000 analysis.

Dimensions

- width 83 cm
- depth 75 cm
- height 142 cm

Weight

- 260 kg

Consumption

- 2500 Watt

Inrush Current

- 8000 Watt

Power Supply

- 220 Vac or 115 Vac 50/60Hz

Mandatory Accessories

- 16997: Mechanical mounting kit for performing analyzes according to ASTM D1478 standard including bearings for running tests.
- 16911: Mechanical mounting kit for performing analyzes according to ASTM D4693 standard including bearings for running tests.

Consumables

- 7056: ASTM D1478 Bearing LM11949/LM11910, pack of 3 pcs.
- 15765: ASTM D4693 tapered bearings, pack of 2 pcs.

Spare Parts

- 3800: Torque sensor ASTM D1478.
- 3799: Torque sensor ASTM D4693.
- 5804: Toothed belt.
- LAB-102-144: Torque wire.