

## Low-Temperature Torque of Lubricating Grease (automatic)

ASTM D 1478 (obs.)

**Product group(s):** Grease

**User group(s):** Lubricating Grease

**Scope:** 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).



### Low-Temperature Torque Test Equipment

More details are mentioned in the "Order Number" section

### Technical Data

Cooling Range:

- Standard: -54 °C (-65 °F)
- Optional: -73 °C (-100 °F)

Temperature Uniformity:

±0.5 °C (±1 °F)

Dimensions (L x W x H):

123 x 86 x 116 cm

Weight:

272 kg

## Main Unit

**99-0505 Low Temperature Torque Apparatus Model for Ball Bearing Greases**  
former ASTM D 1478

Consisting of:

an insulated, thermostatically controlled air chamber with test rigs, drive shafts and externally mounted gear motors. Rotates drive shafts at 1 rpm while electronic load cell-strain gauge indicators measure the torque required to restrain the test rigs. Digital LED displays indicate torque for each drive unit and cold chamber temperature.

Equipped with:

2 test cages and 2 ball bearings.

Note! Data acquisition software is available

Power supply: 220 V, 50 Hz

## Options & Accessories

**99-0506 Strip Chart Recorder**  
2-pen recorder provides hard copy record of torque measurements for each test rig.

**99-0507 Data Acquisition Software Package**

## Spare Parts

**99-0508 Test Bearing ASTM D 1478**

## Order Guideline

Minimum equipment: 1x 99-0505  
Spares (approx. 1 year): 99-0508  
Additional requirements: