Roll Stability of Lubricating Grease

test method

Provides an indication of shear stability of lubricating greases by testing the change in worked penetrations after two hours in the roll stability tester.

roll stability of lubricating grease

- Conforms to ASTM D1831 and related specifications
- Single, double and four-unit models
- Microprocessor programmable high accuracy temperature control
- High Temperature model

Roll stability apparatus for shear stability tests on lubricating greases. Rotates steel test cylinders at 10 or 165rpm in a thermostatically controlled environment at temperatures of up to 200˚F (93.3˚C). Drive system is powered by a rugged ratio motor, and interchangeable drive chain sprockets are easily accessible for converting unit to either operating speed. Microprocessor PID control provides quick temperature stabilization without overshoot and is protected by an overtemperature control circuit that interrupts power should temperature exceed a programmed cut-off point. Dual LED displays provide actual and setpoint temperature values in ˚C/˚F format. Communications software (RS232, etc.), ramp-to-set and other enhanced features are available as extra cost options. Contact your Koehler representative for information. A balanced cast aluminum fan and 1200W heater provide efficient, uniform heat distribution. A dial thermometer in the hinged cover displays chamber temperature. Heaters and drive chain mechanism are shielded for operator safety. Insulated steel cabinet and base are finished with a durable polyurethane enamel finish.

High Temperature Model – A high temperature model is also available that expands the temperature range to 320˚F (160˚C). Tests can be conducted using the high temperature model unit for time/temperature specifications beyond those listed in existing D1831.

ordering information

catalog no.	description
K18300	Single-Unit Model, 115V 60Hz
K18305	Single-Unit Model, 220-240V 50Hz
K18306	Single-Unit Model, 220-240V 60Hz
K18320	Double-Unit Model, 115V 60Hz
K18325	Double-Unit Model, 220-240V 50Hz
K18326	Double-Unit Model, 220-240V 60Hz
K18340	Four-Unit Model, 115V 60Hz
K18341	High Temperature Four-Unit Model, 115V 60Hz
K18345	Four-Unit Model, 220-240V 50Hz
K18346	Four-Unit Model, 220-240V 60Hz
K18347	High Temperature Four-Unit Model, 220/240V 50Hz
K18348	High Temperature Four-Unit Model, 220/240V 60Hz

accessories

K183-0-1A	Test Cylinder, plated steel with threaded end caps and O-ring seals
K183-0-4	Steel Cylinder Roller

K18300 Single Unit Model

specifications

Conforms to the specifications of:
ASTM D1831, MIL-G-10924SA
Maximum Temperature: 200˚F (93˚C)
Temperature Control Stability: 2˚F (1˚C)

Electrical Requirements (Single and double unit models):
115V 60Hz, Single Phase, 10.5A
220-240V 50Hz, Single Phase, 5.5A
220-240V 60Hz, Single Phase, 5.5A

Included Accessories
Test Cylinders with threaded end caps and O-ring seals
Test Rollers, steel, 5kg

Dimensions lxwxh,in.(cm)
Single-Unit: 16-1⁄2x18-3⁄8x15 (42x47x38)
Double-Unit: 16-1⁄2x18-3⁄8x15 (42x47x38)
Four-Unit: 25x18-3⁄8x15 (64x47x38)
Net Weight:
Single-Unit: 98 lbs (44.4kg)
Double-Unit: 116 lbs (52.6kg)
Four-Unit: 187 lbs (84.8kg)

Shipping Information
Shipping Weight:
Single-Unit: 142 lbs (64.4kg)
Double-Unit: 175 lbs (79.4kg)
Four-Unit: 270 lbs (122.5kg)
Dimensions:
Single-Unit: 7.7 Cu. ft.
Double-Unit: 9.8 Cu. ft.
Four-Unit: 16.6 Cu. ft.

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