

Leakage Tendencies of Automotive Wheel Bearing Greases

test method

Evaluates the tendency of automotive wheel bearing grease to separate oil and/or grease under prescribed laboratory conditions. The test is performed at elevated temperature in a modified automotive spindle-hub assembly rotated at 660rpm. Any leakage of oil or grease during the test period is collected

leakage tendencies tester

- Conforms to ASTM D1263 and FTM 791-3454 specifications
- Microprocessor programmable high accuracy temperature control

Consists of a modified front wheel hub and spindle assembly with drive motor and constant temperature air cabinet. Rotates hub at 660rpm while maintaining spindle temperature at a constant 220°F (104°C) or other specified temperature. Oil that has separated from the sample grease during the test period is collected in the hub cap and in a leakage collector that installs on the spindle. The hub is rotated by a durable 1/3hp motor through a V-belt drive. Microprocessor PID control provides quick temperature stabilization without overshoot, and the unit is protected by an overtemperature control circuit that interrupts power should bath 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. Cabinet is insulated on all sides and has a hinged cover for easy access to the hub-spindle assembly. Thermometer ports in the spindle and the cabinet allow for precise setting and monitoring of test temperature. Housed in a heavy-gauge steel exterior with polyurethane enamel finish.

ordering information

catalog no.	description	qty
Leakage Tendencies Tester		
K18700	Leakage Tendencies Tester, 115V 60Hz	1
K18795	Leakage Tendencies Tester, 220-240V 50Hz	
K18790	Leakage Tendencies Tester, 220-240V 60Hz	
accessories		
K18723	Torque Wrench	1
250-000-07F	ASTM 7F Thermometer, Range: 30 to +580°F	2
250-000-07C	ASTM 7C Thermometer, Range: -2 to +300°C	
289-004-004	Large (Inner) Bearing	
289-004-003	Small (Outer) Bearing	



K18700 Leakage
Tendencies Tester

specifications

Conforms to the specifications of:
ASTM D1263; FTM 791-3454
Maximum Temperature: 250°F (121°C)

Electrical Requirements
115V 60Hz, Single Phase, 13.0A
220-240V 50Hz, Single Phase, 7A
220-240V 60Hz, Single Phase, 7A

Included Accessories
Large (Inner) Bearing (1)
Small (Outer) Bearing (1)
Dimensions lwxwxh,in.(cm)
20.5x18x15 (52x46x38)
Net Weight: 95 lbs (43.1kg)

Shipping Information
Shipping Weight: 145 lbs (65.8kg)
Dimensions 8.3 Cu. ft.

High temperature models to 205°C available. Contact your Koehler representative for information.



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