Evaporation Loss of Lubricating Greases Over Wide Temperature Range

test method

Similar to the ASTM D972 Evaporation Loss test, extending the temperature range for evaporation loss testing to 600°F (316°C).

specifications

Conforms to the specifications of: ASTM D2595, D2878*
*with accessory oil sample cup installed
Capacity: 2 samples
Temperature Range: 200 to 600°F (93 to 316°C)
Sample Temperature Control:
Type: microprocessor digital control
Exit Air Temperature Control: Two 0-500W variable control heaters and type K thermocouples (order K29320/K29329 Digital Thermometer separately)
Air Flow Control: Two externally mounted flowmeters maintaining 2L/min flow at standard temperature and pressure

Electrical Requirements
220-240V 50/60Hz, Single Phase, 10.4A

Included Accessories
Evaporation Cell Assemblies with grease sample cups (2)
Type K Thermocouples (2)

Dimensions lxwxh,in.(cm)
25x16x17 (64x41x43) Net Weight: 175 lbs (79.4kg)

Shipping Information
Shipping Weight: 224 lbs (101.6kg) Dimensions: 10.4 Cu. ft.

ordering information

catalog no.	description	qty
K29300	High Temperature Evaporation Loss Tester, 220-240V 50/60Hz	1
	accessories	
K29320	High Precision Digital Thermometer, 115V 60Hz Microprocessor based digital thermocouple thermometer with ten channel input. Monitors Type K Thermocouples from evaporation cells in K29300 Evaporation Loss Tester. Use together with preheater controls in Model K29300 to maintain air temperature within ±1.1°C (±2°F) per ASTM specifications	1
K29329	High Precision Digital Thermometer 220-240V 50/60Hz	
250-000-03F	ASTM 3F Thermometer Range: 20 to 760°F	
250-000-03C	ASTM 3C Thermometer Range –5 to +400°C	
K29530	Oil Sample Cup with Hood	
K29540	Grease Sample Cup with Hood	

K29300 High Temperature Evaporation Loss Tester

high temperature evaporation loss tester

- Conforms to ASTM D2595 specifications
- Microprocessor temperature control with digital display and overtemperature cut-off
- Microprocessor programmable high accuracy temperature control

Performs evaporation loss tests on lubricating greases at temperatures of up to 600°F (316°C). Maintains sample temperature within ±0.3°F while passing heated air over the sample surface at a controlled flow rate. Consists of evaporation cells and aluminum block oven with controls for sample temperature, air temperature and air flow rate. Evaporation cells include grease sample cup, head, eduction tube, cover and thermocouple tube. Aluminum block oven provides efficient response and safe operation at high temperatures.Microprocessor temperature control has °C/°F switchable digital setpoint and display. Operator and equipment are protected by an overtemperature control circuit which automatically interrupts power to the unit when bath temperature exceeds a programmed cut-off point. Microprocessor PID control provides quick temperature stabilization without overshoot and the bath 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. Separate air preheater controls and flowmeters for each cell permit accurate control of heated air flow to sample surface. Order accessory Digital Thermometer (Cat. No. K29310) to monitor exit air temperature and ASTM 3F or 3C Thermometer for block (sample) temperature. Accessory oil sample cup (Cat. No. K29530) converts evaporation cell for lubricating oil samples.

Koehler INSTRUMENT COMPANY, INC.
85 Corporate Drive, Holtsville, New York 11742
1-800-878-9070 (in u.s. only) TEL: +1 631 589 3800 FAX: +1 631 589 3815
Email: sales@koehlerinstrument.com www.koehlerinstrument.com