

Resistance of Lubricating Grease to Water Spray

test method

Evaluates the ability of a lubricating grease to adhere to a metal surface when subjected to a direct water spray under controlled conditions. The percentage of grease sprayed off a stainless steel test panel after a specified period is determined by weight.

water spray apparatus

- Conforms to ASTM D4049 specifications
- Improved spray chamber design

Complete Water Spray Apparatus meeting ASTM specifications, including spray chamber, delivery system and constant temperature reservoir. Sprays water at the specified rate and temperature on a test panel coated with sample grease. To test for water spray resistance, fill reservoir with 8L of tap water and set thermostat at test temperature. Circulate the water through the system to attain temperature equilibrium and insert the coated test panel in the spray chamber. Adjust water spray to 40psi (276kPa) and continue for 5 minutes. Water spray system includes 1/3hp positive displacement pump; spray nozzle with snubber fitting; 0-60psi pressure gauge; bypass valve; shut-off and drain valves; and flexible high pressure water lines. Hinged acrylic spray chamber cover is recessed into the chamber housing to insure watertight operation. Two thermometer wells permit separate monitoring of reservoir and water spray temperatures. Standardized grease application fixture coats test panel with the required thickness of sample grease. Uses tap water; does not require water hook-up.

ordering information

catalog no.	description	qty
K18201	Digital Water Spray Apparatus, 115V 60Hz	1
K18296	Digital Water Spray Apparatus, 220-240V 50Hz	
K18291	Digital Water Spray Apparatus, 220-240V 60Hz	
accessories		
250-000-37C	ASTM 37C Thermometer, Range: -2 to +52°C	1
K18210	Stainless Steel Test Panel	
K18220	Grease Application Fixture	



K18201 Digital Water Spray Off Tester

specifications

Conforms to the specifications of:

ASTM D4049

Circulation System:

Drive Motor: 1/3hp, 1725rpm

Pump: rotary gear positive displacement type

Pressure Gauge: 0-60psi

Temperature Control Stability: $\pm 1^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$)

Electrical Requirements

115V 60Hz, Single Phase, 13.3A

220-240V 50Hz, Single Phase, 6.8A

220-240V 60Hz, Single Phase, 6.8A

Included Accessories

Stainless Steel Test Panel

Grease Application Fixture

Dimensions l x w x h, in.(cm)

29x18x33.5 (74x46x85)

Net Weight: 110 lbs (49.9kg)

Shipping Information

Shipping Weight: 180 lbs (81.6kg)

Dimensions: 14.2 Cu. ft.



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

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ask@labequip.com