



LUBRI-LAB
INC.

TECHNICAL DATA

S-350™

Superior all purpose industrial grease

DESCRIPTION

S-350 high performance calcium sulfonate grease is multipurpose grease suitable for industrial, automotive and marine applications.

BENEFITS

- Excellent shear stability
- Very high load carrying properties
- Resists water and salt water
- Resists corrosion and oxidation
- Wide temperature range -40°C (-40°F) to 386°C (726°F)
- NLGI Approved GC-LB for wheel bearings and chassis
- Food approved standard H-2, CFIA Registration No.: /L 125
- High dropping point
- Resists water wash out, rust, oxidation and heat
- Contains NO heavy metals or other environmentally undesirable additives
- Compatible with seals
- Dielectric properties

APPLICATION AREAS

- Automotive chassis and bearings (NLGI GC-LB)
- Axles
- Sliding and thrust bearings
- Steel mill rollers
- Construction equipment
- Electric motor bearings
- Ski and golf equipment
- Conveyors
- Antifriction bearings
- Oven conveyors
- EP-0 for gear boxes (MOV)
- Industrial bearings
- Crusher bearings
- Agricultural equipment
- Wheel bearings

The above information is true and precise to the best of our knowledge. All recommendations or suggestions are made without warranty since the circumstances and conditions are beyond our control.

For further information contact : **Lubri-Lab Inc.:** info@lubrilab.com

1540, de Coulomb, Boucherville QC Canada J4B 8A3

Tel.: (888) 449-1626 (450) 449-1626 Fax: (450) 449-9174

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PHYSICAL PROPERTIES

Typical Result

N.L.G.I. GRADE	2
COLOUR	Tan
DROPPING POINT, ASTM D2265, (726°F) °C	386
CONSISTENCY, ASTM D217, worked penetration, mm/10	280

WEAR PERFORMANCE / EXTREME PRESSURE

TIMKEN OK LOAD, ASTM D2509, (80 lbs) kg	36
4 BALL EP, ASTM D2596, load wear index, kg	80
Weld point, (1,370 lbs) kg	620
4 BALL WEAR, ASTM D2266, scar diameter, mm. (40 kg (88 lb), 1200 rpm, 75 °C (167°F), 1 hour)	0.38

LEAKAGE / SEPARATION CHARACTERISTICS

OIL SEPARATION, ASTM D1742, mass %	0.2
WHEEL BEARING LEAKAGE, ASTM D4290, grams	3.0

CORROSION RESISTANCE

RUST TEST, rating, ASTM D1743	pass
SALT FOG CORROSION, ASTM B117, hours to failure, 1 mil d.f.t.	>300

OXIDATION RESISTANCE

BEARING LIFE, ASTM D3527, hours	100
BOMB OXIDATION, ASTM D942, psi drop after 1000 hours	9.0

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WATER PERFORMANCE

WATER WASHOUT, ASTM D1264, at 79°C (175°F), % loss 1.0

MECHANICAL STABILITY

UNWORKED ASTM D217 280
CONSISTENCY, ASTM D217, worked penetration, mm/10 280
WORKED STABILITY, ASTM D217, % change from baseline
 worked 100,000 strokes 2.4
 worked 10,000 strokes, with 50/50 water mixture 6.5
SHELL ROLL, ASTM D1831, % change from baseline 3.2

LOW TEMPERATURE PROPERTIES

LOW TEMPERATURE TORQUE, ASTM D4693, at -40°C, (-40° F) N m 10

BASE OIL

Viscosity @ 40°C cSt ASTM D445 125
Viscosity @ 100°C cSt ASTM D445 13.1
Viscosity @ 100°F SUS ASTM D2161 575
Viscosity @ 210°F SUS ASTM D2161 60
Viscosity Index ASTM D2270 98

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DIELECTRIC STRENGTH TESTS

ASTM D149 Dielectric Strength per Mil-C-8660C:

½ inch hemispherical electrodes 500 volts/second rate of rise, , 50% R.H.

10 mil gap	Breakdown Voltage		
	Run 1	3.29 kV	
	Run 2	4.46 kV	
	Run 3	4.20 kV	
	Run 4	4.00 kV	
	Run 5	4.65 kV	
	<i>Average</i>	<i>4.12 kV</i>	
	Breakdown Voltage	412 volts/min	
50 mil gap	Breakdown Voltage		
	Run 1	17.44 kV	
	Run 2	16.86 kV	
	Run 3	14.85 kV	
	Run 4	15.95 kV	
	Run 5	17.05 kV	
	<i>Average</i>	<i>16.43 kV</i>	
	Breakdown Voltage	329 volts/min	

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ASTM D150 @ Ambient Temperature	Results
Dielectric Constant	K' = 3.103
Dissipation Factor	D factor = 0.1317

ASTM D257 (ASTM D1169) Volume Resistivity @ Ambient Temperature @ 1 minute Electrification @ 500 Volts D.C.	3.63 x 10 ⁹ ohm-cm
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Special features: Approved standard H-2 by *Agriculture and Agri-Food Canada, Food Production and Inspection Branch for food equipment*. Avoid contact with food.

File number: 3100-3/L125

Availability : Case 50 tubes, 17 kg, 55 kg, 180 kg.
Also available NLGI EP-0

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