



**LUBRI-LAB**  
INC

## TECHNICAL DATA

### S-350™

## Superior Calcium Sulfonate Complex 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 fresh water and salt water
- Resists corrosion and oxidation
- Outstanding high temperature properties from -40°C (-40°F) to +316°C (+600°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 washout, rust, oxidation and heat
- Contains NO heavy metals or other environmentally undesirable additives such as phosphorus, zinc, chlorine, sulfur, phenols, antimony, lead, barium, lithium or aluminium.
- Compatible with seals
- Dielectric properties

### APPLICATIONS

- Automotive chassis and bearings
- NLGI GC-LB
- Antifriction bearings.
- Oven conveyor.
- Electric motor bearings.
- Bearings on ships.
- Offshore and underwater applications.
- Many others where corrosion and water washout is a concern.
- Industrial bearings
- Conveyors.
- Axles.
- Sliding and thrust bearings.
- Steel mill rollers.
- Crusher bearings
- Agricultural equipment.
- Wheel bearings.
- Ski and golf equipment.
- Motor operated steam valves (EP-0)
- Gear boxes (EP-0)

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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.

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Toll free Canada USA: +1 888 449-1626 Tel: 450 449-1626 Fax: 450 449-9174

ISO 9001. & C-TPAT certified and validated.



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# S-350<sup>TM</sup> Superior Calcium Sulfonate Complex Grease

<b>PHYSICAL PROPERTIES</b>	<b>Result</b>
N.L.G.I GRADE	2
COLOUR	Tan
DROPPING POINT, ASTM D2265, °C (°F)	+316 (+600)
<b>WEAR PERFORMANCE / EXTREME PRESSURE</b>	
TIMKEN OK LOAD, ASTM D2509, kg (lb)	36 (80)
4 BALL EP, ASTM D2596, load wear index, kg Weld point, kg (lbs)	67 620 (1367)
4 BALL WEAR, ASTM D2266, scar diameter, mm	0.39
Fretting Wear Protection, mgs loss, ASTM D 4170 Ambient Temperature @ -18°C (0°F)	2.50 6.2
<b>LEAKAGE / SEPARATION CHARACTERISTICS</b>	
OIL SEPARATION, ASTM D1742, mass %	≤0.5
WHEEL BEARING LEAKAGE, ASTM D1263, % loss grams	0.4
<b>CORROSION RESISTANCE</b>	
RUST TEST, ASTM D1743 rating	pass
SALT FOG CORROSION ASTM B117, hours to failure	>1000
GREASE RUST TEST: Synthetic Sea Water. ASTM D5969	pass
EMCOR CORROSION TEST: ASTM D6138.	0

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### OXIDATION RESISTANCE

BOMB OXIDATION, ASTM D942, psi drop after 1000 hours	9.0
500 hours	2
100 hours	0

### WATER PERFORMANCE

WATER WASHOUT, ASTM D1264, at 79°C (175°F), % loss	≤1
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### MECHANICAL STABILITY

CONSISTENCY, ASTM D217, worked penetration, mm/10, 60strokes	280
WORKED STABILITY, ASTM D217, % change from baseline	
Worked 100,000 strokes	2
Worked 10,000 strokes, with 50/50 water mixture	1
Roll Stability % Change ASTM D1831	<3.0

### BASE OIL CHARACTERISTICS

Viscosity @ 40 C cSt	220
Viscosity @ 100 C cSt	18.9
Viscosity Index ASTM D2270	96.15
Pour Point, °C (°F)	-15 (5)

### Food Approved

Standard H-2 by CFIA. Canadian Food Inspection Agency. *Branch for food equipment.* Avoid direct contamination during application or during storage.

**File number: 3100-3/L125**

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**DIELECTRIC STRENGTH TESTS**

<b>ASTM D149 Dielectric Strength per Mil-C-8660C:</b>			
<i>½ inch hemispherical electrodes 500 volts/second rate of rise, , 50% R.H.</i>			
<b>10 mil gap</b>	<b>Breakdown Voltage</b>		
	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>	
	<b>Breakdown Voltage</b>	<b>412 volts/min</b>	
<b>50 mil gap</b>	<b>Breakdown Voltage</b>		
	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>	
	<b>Breakdown Voltage</b>	<b>329 volts/min</b>	

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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 <sup>9</sup> ohm-cm
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### Availabilities :

Case of 50 cartridges, 15.85 kg (35 lb/pail), 55 kilos (121 lb/keg), 180 kilos (396 lb/drum).

**NLGI Grade Availability:** EP-2 and EP-0.

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