



Product Bulletin

GULF SUPER DUTY EP GREASES LITHIUM COMPLEX

Gulf Super Duty EP Greases Lithium Complex are multipurpose NLGI #1 and #2 “lithium complex” greases. They are specifically formulated with high dropping points and extreme pressure characteristics for use in disc-brake wheel bearings. They are red and tacky, making them easily identifiable.

FEATURES AND BENEFITS:

Gulf Super Duty EP Greases Lithium Complex contains a state-of-the-art “Passive EP” additive system, which provides protection at all ambient temperatures, as opposed to the conventional heat-activated EP technology. They contain no heavy metals, which augment oxidation resistance and will protect against heavy shock loading conditions. Additionally, these products offer the following benefits:

- Longer equipment life
- Outstanding oxidation resistance
- Excellent protection against wear
- Superior rust and corrosion protection
- Excellent pumpability at low ambient temperatures

APPLICATIONS:

Gulf Super Duty EP Greases Lithium Complex are ideally suited for heavy-duty trucks, construction equipment, earthmoving equipment, industrial systems, marine service, mining operations and farm equipment. They meet the requirements of NLGI GC-LB for high-temperature, disc-brake wheel bearings, and are used in a wide variety of grease lubricating applications where NLGI #1 or #2 grease is required, such as the following:

- King pins
- Bucket pins
- Fifth wheels
- Universal joints
- Trailer landing gears
- General chassis lube
- Ball and roller bearings
- Electric motor bearings

SELECTION:

Gulf Super Duty EP Greases Lithium Complex are available in two NLGI grades - **#1** and **#2**. The physical and chemical properties are listed on the back. Follow equipment manufacturer recommendations for appropriate NLGI grade.



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AVAILABILITY:

Gulf Super Duty EP Greases Lithium Complex are available throughout Gulf's marketing area. Your Gulf representative or Gulf jobber can provide specific information. Need additional information? Call Gulf @ 1-800-566-GULF (4853).

Gulf Super Duty EP Greases Lithium Complex- Typical Properties

NLGI Grade		#1	#2
Product Code	Test Method	344011	344012
Thickener Type	ASTM D-128	Lithium Complex	Lithium Complex
Thickener Content, wt.%	ASTM D-128	8	10
Base Oil Viscosity, cSt @ 40°C	ASTM D-445	195	195
Base Oil Viscosity, cSt @ 100°C	ASTM D-445	20	20
Base Oil Viscosity, SUS @ 100°F	ASTM D-2161	905	905
Base Oil Viscosity, SUS @ 210°F	ASTM D-2161	98.5	98.5
Base Oil Viscosity Index	ASTM D-2270	95	95
Color	Visual	Red	Red
Appearance	Visual	Smooth	Smooth
Cone Penetration @ 77°F Worked, 60x Worked, 10,000x, % Change	ASTM D-217	325 ± 10	280 ± 10
Dropping Point, °F (°C) (min)	ASTM D-2265	500 (260)	525 (272)
Four-Ball Wear Test, mm (max)	ASTM D-2266	0.6	0.6
Four-Ball EP Test, Load Wear Index (LWI), kgf (min) Four-Ball Weld Point, kgf (min)	ASTM D-2596	30 200	30 200
Water Washout, wt.% loss @ 175°F (max)	ASTM D-1264	15	15
Copper Strip Corrosion	ASTM D-4048	1B	1B
Rust Prevention, rating	ASTM D-1743	Pass	Pass
Low Temp. Torque @ -40°C, N·m (max)	ASTM D-4693	15.5	15.5
Wheel Bearing Life Test, hours (min)	ASTM D-3527	80	80
Operating Temperature Ranges Minimum, °F (°C) Maximum Continuous Service, °F (°C)		-20 (-29) 400 (204)	-10 (-23) 400 (204)
Timken OK Load, lbs. (min)	ASTM D-2509	60	60