



# LSG LITHIUM COMPLEX 150 3% MOLY GREASE NO. 1 & 2

Lithium Complex Grease with Moly for Extreme Pressure and High Load Applications

Ideal for Heavy-Duty Machinery in Mining and Frack Operations.

# LSG LITHIUM COMPLEX 150 3% MOLY GREASE NO. 1 & 2

is a heavy-duty lithium complex grease fortified with 3% molybdenum disulfide (Moly), engineered to provide superior protection for equipment operating under the brutal conditions of mining and other demanding industrial applications. This grease delivers excellent performance in high-load, high-shock, and abrasive environments where component reliability is critical.

The added Moly creates a durable, solid lubricating layer on metal surfaces, significantly reducing friction and wear in heavily loaded pivot points, pins, bushings, and joints—especially those exposed to high vibration and impact such as in drill rigs, excavators, crushers, and articulated trucks. Its inclusion ensures enhanced protection against metal-to-metal contact even when the fluid film is momentarily disrupted under high shock loads.

Designed for extended performance in high temperatures and high-pressure environments, this grease maintains its consistency and film strength even under sustained loads and extreme heat. Its superior water resistance ensures protection in wet or slurry-heavy environments commonly found in underground mines, open-pit mines, and processing plants.

With excellent mechanical stability, rust protection, and oxidation resistance, **LSG Lithium Complex 150 3% Moly Grease No. 1 & 2** helps extend equipment service intervals, reduce unplanned downtime, and minimize costly component replacements, keeping critical operations moving efficiently in the toughest field conditions.

## KEY FEATURES

- **Lithium complex thickener** for superior thermal and mechanical stability under severe conditions.
- Fortified with 3% **molybdenum disulfide (moly)** for enhanced extreme pressure (EP) and anti-wear protection.
- Excellent load-carrying capacity for severe-duty service, preventing wear in heavily loaded components.
- Outstanding resistance to water washout, oxidation, and rust, ensuring protection in wet and humid environments.
- Maintains consistency and film strength under high temperatures, pressure, and vibration.
- Available in **NLGI No. 1 and No. 2** consistency for versatile application methods, including centralized systems and manual grease guns.

## CUSTOMER BENEFITS

- ✓ Protects against metal-to-metal contact and premature wear under high loads and shock conditions.
- ✓ Ideal for wear protection for slow-moving, high-load pivot points and sliding surfaces where solid lubricants are beneficial.
- ✓ Resists degradation in high-temperature, high-pressure, and wet environments, ensuring consistent corrosion protection.
- ✓ Increase equipment uptime and reduce relubrication frequency, lowering operational costs.
- ✓ Stays in place under vibration and heavy loads, providing continuous lubrication and sealing out contaminants.

## APPLICATIONS

### **LSG Lithium Complex 150 3% Moly Grease No. 1 & 2 is recommended for:**

- **Heavy-duty construction and mining equipment:** Haul trucks, excavators, loaders, dozers, drill rigs.
- **Pivot pins, bushings, universal joints, and fifth wheels** in off-road and heavy mobile equipment.
- Chassis lubrication points subjected to high shock loads and constant pounding.
- Equipment components in **dusty or wet working conditions** where wear and contamination are concerns.
- Applications requiring enhanced solid lubrication for boundary conditions.
- Conveyor systems, crushers, and other fixed plant machinery in harsh industrial settings.

## PACKAGING:



Cartridges  
14 oz.



Pails  
35 lbs.



Kegs  
120 lbs.



Drums  
400 lbs.

\*Custom and Bulk Packaging available upon request.

## TYPICAL PROPERTIES

Property	No. 1	No. 2	Test Method
NLGI Grade	1	2	ASTM D217
Worked Penetration (60X)	310–340	265–295	ASTM D217
Dropping Point (°C)	>260	>260	ASTM D2265
Base Oil Viscosity @ 40°C (cSt)	150	150	ASTM D445
Four Ball Weld Load (kg)	500	500	ASTM D2596
Four Ball Wear (mm)	0.45	0.45	ASTM D2266
Timken OK Load (lbs)	60	60	ASTM D2509
Molybdenum Disulfide	3%	3%	Calculated
Water Washout, % @ 175°F	<2	<2	ASTM D1264
Rust Test	Pass	Pass	ASTM D1743
Color	Dark Gray / Black	Dark Gray / Black	Visual
Texture	Smooth / Tacky	Smooth / Tacky	Visual



Typical properties reflect the expected results within normal production tolerances but do not constitute a specification. Minor variations that do not impact product performance may occur during standard manufacturing processes or at different blending locations. The information provided here is subject to change without notice.

### Health and Safety:

When used as intended, this product is not expected to pose any health risks or safety concerns. To minimize exposure, avoid direct skin contact and wear resistant gloves when handling used lubricants. If contact occurs, wash the affected area immediately with soap and water. For comprehensive guidelines on safe handling and detailed product information, please refer to the Material Safety Data Sheet (MSDS) available on our website. <https://lonestargl.com>