

LSG LITHIUM COMPLEX 150 GREASE NO. 00, 0, 1 & 2

High-Temperature, Multi-Service Lithium Complex Grease for Severe Operations

Designed for High-Temperature and Heavy-Duty Equipment in Steel Mill Operations, Including Centralized Systems.

LSG LITHIUM COMPLEX 150 GREASE NO. 00, 0, 1 & 2

Is a premium lithium complex grease specifically designed to meet the rigorous and severe demands of the steel mill industry. Engineered for high-temperature, high-load, and high-contamination environments, it provides excellent lubrication and robust protection in the challenging operating conditions commonly encountered across steel production processes.

LSG Lithium Complex 150 Greases deliver outstanding resistance to intense heat, oxidation, and mechanical breakdown, ensuring optimal performance in critical components like roll neck bearings, continuous caster segments, mill stand bearings, and other heavily loaded points. Its enhanced tackiness and mechanical stability help it stay in place under extreme shock loads, constant vibration, and the presence of water, steam, or contaminants, significantly reducing the risk of

LONE STAR
GREASE & LUBRICANTS

metal-to-metal contact and pre-mature wear.

Formulated to resist water washout, LSG Lithium Complex 150 Greases perform reliably in wet, humid, or steam-laden environments, providing an effective barrier against rust and corrosion common in steel mills. Whether lubricating machinery in hot rolling mills, cold finishing lines, or continuous casting operations, this grease offers consistent and reliable protection during long hours of operation and high production cycles.

Available in NLGI No. 00, 0, 1 & 2 grades, it can meet the various temperatures and application methods for your plant, making it the optimal choice for maintenance crews aiming to extend component life, minimize unplanned downtime, and maximize overall plant productivity.

KEY FEATURES

- **Lithium complex thickener** for exceptional high-temperature stability, crucial for steel mill hot zones.
- **Available in NLGI No. 00, 0,1 & 2 Grades** for various applications, including centralized lubrication systems and manual re-greasing.
- Excellent mechanical stability under constant shock and extreme heavy loads typical in rolling mills and casters.
- Optimized additives and high drop point for extended protection and reliable performance in heat-intensive environments.
- Resists water washout, steam, oxidation, and rust, providing critical protection against corrosive elements and coolants.
- Enhanced tackiness ensures the grease stays in place, even under high shear and vibration.

CUSTOMER BENEFITS

- ✓ Reduces equipment wear and friction in extreme service conditions, prolonging the life of expensive steel mill machinery.
- ✓ Performs reliably in a wide range of temperatures and harsh wet environments (water, steam, coolants).
- ✓ Suitable for both centralized lubrication systems and standard grease fittings, offering operational flexibility.
- ✓ Stays in place under vibration, impact, and high pressure, providing continuous lubrication.
- ✓ Extends re-lubrication intervals and reduce unplanned downtime, enhancing production efficiency.
- ✓ Provides a protective barrier against abrasive contaminants like metallic dust and scale.

APPLICATIONS

LSG Lithium Complex 150 Grease No. 00, 0, 1 & 2 is designed for:

- Continuous Casters: Roller bearings, segment bearings, and guides exposed to heat and water.
- Hot Rolling Mills: Mill stand bearings, roll neck bearings, screw-down mechanisms.
- Cold Rolling Mills: Bearings and general lubrication points.
- Blast Furnace Equipment: Bearings and mechanisms in high-temperature, dusty areas.
- Overhead Cranes: Wheel bearings, sheaves, and trolley systems.
- Basic Oxygen Furnaces (BOF) / Electric Arc Furnaces (EAF): Trunnion bearings and tilt mechanisms.
- General lubrication of bearings, pins, bushings, and linkages throughout the steel production process.

PACKAGING:



*Custom and Bulk Packaging available upon request.

TYPICAL PROPERTIES

Property	No. 00	No. 0	No. 1	No. 2	Test Method
NLGI Grade	00	0	1	2	ASTM D217
Worked Penetration (60X)	400–430	355–385	310–340	265–295	ASTM D217
Dropping Point (°C)	-	-	>260	>260	ASTM D2265
Base Oil Viscosity @ 40°C (cSt)	150	150	150	150	ASTM D445
Four Ball Weld Load (kg)	400	400	400	400	ASTM D2596
Four Ball Wear (mm)	0.45	0.45	0.45	0.45	ASTM D2266
Timken OK Load (lbs)	45	45	45	45	ASTM D2509
Water Washout, % @ 175°F	-	-	<3	<3	ASTM D1264
Rust Test	Pass	Pass	Pass	Pass	ASTM D1743
Color	Red	Red	Red	Red	Visual
Texture	Smooth / Tacky	Smooth / Tacky	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://lonestargrl.com>