

LSG SYNTHETIC LITHIUM COMPLEX 460 GREASE NO. 00, 0, 1, & 2

Premium Full Synthetic PAO Lithium Complex Grease for High Loads, Extreme Temperatures & Water Presence in General Industrial Applications.

High-Viscosity Synthetic Grease for Uncompromising Performance in Demanding Manufacturing and Processing Environments.

LSG SYNTHETIC LITHIUM COMPLEX 460 GREASE NO. 00, 0, 1, & 2



Is a high-performance, synthetic-based lubricant designed to excel under extreme mechanical stress, wide temperature fluctuations, and severe service conditions. Engineered with a high-viscosity synthetic base oil and a proprietary lithium complex thickener system, it delivers extra protection in high-load applications, while maintaining structural stability and pumpability across **NLGI grades No. 00, 0, 1 & 2**.

Its high viscosity synthetic base not only enhances thermal and oxidative stability but also provides extra wear protection and extended component life. This makes it a go-to solution for industries such as mining, heavy transportation, steel mills, and wind energy systems, where uptime and resilience are non-negotiable.

The grease has been developed through rigorous testing and refinement, optimizing the synthetic base oil and additive performance.

It performs exceptionally well in centralized lubrication systems, as well as manual or automatic, offering versatile coverage for gear-driven, bearing-loaded, or key pieces of equipment.

Its advanced formulation provides high-temperature resistance, superb shear stability, and unmatched water washout protection. The inclusion of high-performance additives enables superior corrosion protection, load-carrying capacity, and lubricity, while preventing metal-to-metal contact and grease sling-off in dynamic systems.

Whether you're lubricating gearboxes, conveyor bearings, chains, or extreme-load pivots, **LSG Synthetic Lithium Complex 460 Greases** ensure reliable, long-lasting performance in both extreme and harsh environments.

KEY FEATURES

- **Full synthetic base oil** for robust film strength, excellent load-carrying capacity, and broad temperature performance, critical for heavy-duty industrial machinery.
- **Lithium complex thickener** with a high dropping point and superior thermal stability, maintaining consistency in extreme operating temperatures encountered in industrial plants.
- **NLGI No. 00, 0, 1 and No. 2 consistency** for versatile industrial application, ensuring pumpability in centralized lubrication systems and structural durability in heavy-duty bearings and open components.
- **Outstanding resistance to water, steam, and coolant washout**, providing critical protection against common industrial contaminants like process fluids, dust, and moisture.
- **Exceptional anti-wear and extreme pressure (EP) properties**, safeguarding components under severe loads, shock, and continuous operation.
- **Suitable for extended drain intervals** under severe conditions, reducing maintenance frequency and operational costs across your facility.

CUSTOMER BENEFITS

- ✓ Enhanced equipment protection in both high- and low-temperature applications.
- ✓ Long-lasting lubrication reduces relubrication intervals.
- ✓ Performs well in high-speed bearings, bushings, and chassis components.
- ✓ Compatible with most elastomers and seals.
- ✓ Protects metal surfaces against wear, rust, and water damage.

APPLICATIONS

LSG Synthetic Lithium Complex 460 Grease No. 00, 0, 1, & 2 is engineered for a wide range of heavy-duty applications, including:

- On- and off-road equipment (construction, mining, agriculture).
- Automotive chassis and wheel bearings
- Chains and conveyors.
- High-speed or high-load bearings.
- General Industrial applications requiring a wide range of performance features.

Wide range of NLGI grades allows you to select the optimal grease for your specific application needs — ranging from semi-fluid flowable greases to more rigid and structured greases.

PACKAGING:



Cartridges
14 oz.



Pails
35 lbs.



Kegs
120 lbs.



Drums
400 lbs.

*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)	460	460	460	460	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, % @ 79°C	-	-	<3	<3	ASTM D1264
Color	Red	Red	Red	Red	Visual
Texture	Smooth	Smooth	Smooth	Smooth	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>