

LSG SYNTHETIC LITHIUM COMPLEX 100 GREASE NO. 1 & 2

Premium PAO Synthetic Grease for Diverse Industrial Applications.

Superior Protection for Wide Temperatures and Load Ranges in Industrial Applications.

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LONE STAR
GREASE & LUBRICANTS

Is a premium synthetic PAO grease engineered to meet the rigorous demands of diverse industrial environments. Designed for extended service life, optimal performance, and superior protection against harsh operating conditions, this high-performance lubricant delivers outstanding stability for components exposed to extreme temperatures (both high and low), heavy loads, high speeds, water, and various industrial contaminants.

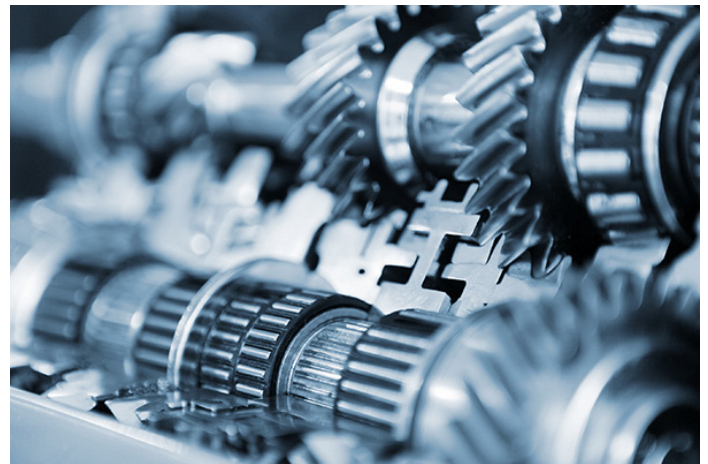
Utilizing a state-of-the-art synthetic base oil and an advanced lithium complex thickener system, **LSG Synthetic Lithium Complex 100 Greases** resist thermal breakdown, water intrusion, and corrosive elements. Its superior mechanical integrity and stable consistency make them ideal for use in high-speed bearings, critical gear components, and centralized lubrication systems across a wide range of manufacturing, processing, and heavy industrial applications.

Engineered to minimize wear and reduce friction under high-load, high-RPM conditions, these greases provide long-lasting performance and consistent lubrication even in the most challenging industrial settings. It maintains its structure and performance in demanding environments, preventing wear and component failure, even when subjected to intense heat, constant vibration, or frequent washdowns. The availability of NLGI No. 1 and No. 2 allows for versatile application, including excellent pumpability for automated systems or robust performance for general-purpose bearings.

Recommended for vital industrial machinery, **LSG Synthetic Lithium Complex 100 Greases** support equipment reliability, lower maintenance costs, and contributes to safe, smooth, and efficient operations across your facility.

KEY FEATURES

- **Fully PAO synthetic base oil** for exceptional thermal stability, wide operating temperature range (from extreme cold to high heat), and extended service life.
- **Lithium complex thickener** for robust high-temperature performance and excellent mechanical stability under heavy loads.
- **NLGI No. 1 and No. 2 consistency** for versatile application, offering excellent pumpability in centralized lubrication systems and firm reliability in bearings.
- **Outstanding resistance to water washout and moisture ingress**, providing superior protection against common industrial contaminants and wet environments.
- Low bleed and oil separation to maintain clean operation and prevent lubrication failure in sensitive machinery.
- Reduces friction and wear under high-speed and heavy-load conditions, prolonging component life.



CUSTOMER BENEFITS

- ✓ Ensures long-term protection and extended regreasing intervals for valuable industrial assets, reducing costly downtime.
- ✓ Prevents costly wear and corrosion on critical components exposed to extreme temperatures, water, and contaminants.
- ✓ Potential to improve energy efficiency by reducing friction and operating temperatures in industrial machinery.
- ✓ Maintains grease consistency under centrifugal and thermal stress, preventing premature failure and leakage.
- ✓ Minimizes risk of leakage or contamination, supporting operational efficiency and safety standards.
- ✓ Reliable performance in areas with high heat, extreme cold and water ingress, crucial for continuous industrial production.

APPLICATIONS

LSG Synthetic 100 Grease No. 1 & 2 is recommended for:

- Electric motors, pumps, and fans requiring reliable, long-lasting lubrication.
- Conveyor systems, crushers, screens, and materials handling equipment.
- Bearings (journal, anti-friction) operating under wide temperature ranges, high speeds, or heavy loads.
- Gear couplings, universal joints, and splines.
- Machine tools, textile machinery, and general manufacturing equipment.
- Robotics and automation components.
- Industrial transmissions and gearboxes (where grease lubrication is specified).
- Any application requiring a premium synthetic, high-performance grease with broad temperature and water resistance.

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)	100	100	ASTM D445
Four Ball Weld Load (kg)	315	315	ASTM D2596
Four Ball Wear (mm)	0.45	0.45	ASTM D2266
Timken OK Load (lbs)	40	40	ASTM D2509
Water Washout, % @ 175°F	<2	<2	ASTM D1264
Color	Blue	Blue	Visual
Texture	Smooth / Buttery	Smooth / Buttery	Visual
Oil Separation (24 hr @ 100°C), %	<3	<3	ASTM D1742
Corrosion Protection	Pass (No Rust)	Pass (No Rust)	ASTM D665, Proc. B
Water Spray Off Test	<10%	<10%	ASTM D4049



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>