LONE STAR
GREASE & LUBRICANTS

LSG SYNTHETIC LITHIUM COMPLEX 100 GREASE NO. 1

High Performance PAO Synthetic Grease for Automotive Applications.

Superior Protection for Extreme Temperatures and Demanding Conditions in Modern Vehicles.

LSG SYNTHETIC LITHIUM COMPLEX 100 GREASE NO. 1 & 2

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Are high performance synthetic (PAO) greases engineered with an ISO 100 synthetic base oil and additives to meet the rigorous demands of diverse automotive applications.

Designed for high speed extended service life, optimal performance, and superior protection against harsh elements, this high-performance lubricant delivers outstanding protection for components exposed to extreme temperatures (both hot and cold), heavy loads, high speeds, water, and road contaminants.

Utilizing a state-of-the-art synthetic base oil and a precision lithium complex thickener system, **LSG Synthetic Lithium Complex 100 Greases** resist thermal breakdown, water intrusion, and corrosive elements. Their superior mechanical integrity and stable consistency make them ideal for use in wheel bearings, chassis points, universal joints, and critical drive-line components across a wide range of passenger, commercial, and heavy-duty vehicles.

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 automotive environments. It maintains its structure and adhesion in demanding environments, reducing leakage or lubricant failure, even when subjected to intense heat, constant operation, or frequent washdowns.

The availability of NLGI 1 and 2 grades allows for versatile application, including excellent pumpability for automated chassis lubrication systems or robust adherence for general-purpose wheel bearings and chassis points.

Recommended for vital automotive components, LSG Synthetic Lithium Complex 100 Greases supports vehicle reliability, lowers maintenance requirements, and contributes to safe, smooth, and efficient operations for fleets and individual vehicles.

KEY FEATURES

- **Fully synthetic PAO base oil** for exceptional thermal stability, wide operating temperature range (from extreme cold starts to high operating heat), and extended service life in automotive applications.
- **Lithium complex thickener** for robust high-temperature performance and excellent mechanical stability under the heavy loads and harsh environmental conditions typical in vehicles.
- **NLGI No. 1 and No. 2 consistency** for versatile automotive applications, offering excellent pumpability for centralized lubrication systems and good adhesion in wheel bearings and chassis points.
- **Outstanding res istance to wate r washout and moisture ingress**, providing superior protection against common road contaminants, rain, and snow.
- **Low bleed and oil separation** to maintain clean operation and prevent lubricant loss from critical components.
- **Reduces friction and wear** under high-speed and heavy-load conditions, prolonging the life of automotive bearings and chassis components.

CUSTOMER BENEFITS

- Ensures long-term protection and extended re-greasing intervals for valuable automotive assets, reducing costly downtime and labor.
- Prevents costly wear and corrosion on critical components exposed to extreme conditions, water, and
- Potential to improve energy efficiency by reducing friction and operating temperatures in wheel ends and driveline components.
- Maintains grease consistency under mechanical and thermal stresses, preventing premature failure and leakage from wheel bearings and joints.
- Minimizes risk of leakage , supporting operational efficiency and safety for vehicles.
- Reliable perfor mance in areas with high heat, severe cold, and water ingress, crucial for continuous vehicle operation.

APPLICATIONS

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

- Wheel bearings in passenger cars, trucks, and buses.
- Chassis lubrication points in all types of automotive and heavy-duty vehicles.
- Universal joints, CV joints, and splines.
- Suspension components, steering linkages, and ball joints.
- Electric motor bearings, pumps, and fans in automotive auxiliary systems.
- Agricultural machinery and construction equipment, particularly for highway-use applications.
- Any automotive component requiring a 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 (D665B)	Pass (No Rust)	Pass (No Rust)	ASTM D665, Proc. B
Water Spray Off Test	<10%	<10%	ASTM D4049

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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