



LSG SYNTHETIC LITHIUM COMPLEX 100 GREASE NO. 1 & 2

Premium PAO Synthetic Grease for High Temperatures, High Speeds, and Extreme Environments in Agriculture & Forestry.

Superior Protection for Farm Machinery, Forest Equipment, and General Lubrication in Demanding Outdoor Environments.

LSG SYNTHETIC LITHIUM COMPLEX 100 GREASE NO. 1 & 2

Is a premium synthetic (PAO) grease engineered with an ISO 100 synthetic base oil to meet the rigorous demands of the **agriculture and forestry industry**. Designed for extended service life, optimal performance, and superior protection against harsh elements, this high-performance lubricant delivers outstanding protection for components exposed to extreme temperatures (from scorching heat to freezing cold), heavy dust, mud, moisture, crop residue, sap, and debris.

Utilizing a state-of-the-art synthetic base oil and an advanced lithium complex thickener technology, **LSG Synthetic Lithium Complex 100 Grease No. 1 & 2** resists thermal breakdown, water and mud intrusion, and corrosive elements. Its superior mechanical and stable consistency makes it ideal for use in high-speed bearings, PTO shafts, universal joints, and baler mechanisms across various farming and logging operations.

KEY FEATURES

- **Formulated with 100% PAO synthetic base oil (ISO VG 100) technology** for exceptional thermal stability, extreme operating temperatures (from extreme cold starts to high temperature operations), and extended service life, especially beneficial for **high-speed components** and applications needing excellent cold-weather pumpability in agricultural and forestry equipment.
- **Lithium complex thickener** for robust high-temperature performance and excellent mechanical stability under the high sheer and stress conditions typical of agricultural and forestry work.
- **NLGI No. 1 and No. 2** consistency for versatile applications, offering excellent pumpability in centralized lubrication systems (large tractors and combines) and strong adherence to equipment in general-purpose bearings and chassis points.

CUSTOMER BENEFITS

- ✓ Ensures long-term protection and extended regreasing intervals for valuable farm and forestry assets, reducing costly downtime and labor during critical operational seasons.
- ✓ Prevents costly wear and corrosion on critical components exposed to extreme temperatures, moisture, mud, and abrasive contaminants.
- ✓ Potential to improve energy efficiency by reducing friction and operating temperatures in high-speed bearings, motors, and PTO-driven implements.
- ✓ Maintains grease consistency under thermal and mechanical stresses, preventing premature failure and oil leakage, even in challenging outdoor conditions.
- ✓ Reliable performance in areas that experience a wide range of conditions such as high heat, extreme cold, and significant water/dust/debris ingress.

LONE STAR
GREASE & LUBRICANTS

The additive technology has been optimized to minimize wear and reduce friction under high-speed and moderate-load conditions, providing long-lasting performance and consistent lubrication even in the most challenging farm and forest environments. It maintains its structure and performance in demanding applications, preventing wear or 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 methods, including excellent pumpability for automated systems in cold weather or robust performance in high temperature applications.

Recommended for vital agricultural and forestry machinery, **LSG Synthetic Lithium Complex 100 Grease No. 1 & 2** improved equipment reliability, lowers maintenance costs, and contributes to safe, smooth, and efficient operations during

- **Outstanding resistance to contamination from water, mud, abrasive dust, crop residue, and sap**, providing superior protection against common contaminants encountered in fields and forests by staying in place.
- **Low bleed and oil separation** to maintain clean operations and provide the required lubrication needed for the equipment.
- **Reduces friction and wear under high-speed and moderate-load conditions**, prolonging component life and contributing to potential energy efficiency of farm and forest machinery.

APPLICATIONS

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

- Tractor wheel bearings, universal joints, and PTO shafts.
- Baler knotters, combine headers, threshing units, and other harvesting machinery components.
- Bearings on planters, cultivators, sprayers, irrigation equipment, and tillage implements.
- Forestry equipment such as feller bunchers, skidders, delimiters, mulchers, particularly for high-speed or moderately loaded bearings.
- Light to moderately loaded pins, bushings, and general chassis lubrication points on agricultural and forestry vehicles.
- Any application in the **agriculture and forestry sectors** requiring a full synthetic grease with broad temperature range capability, excellent water and contamination resistance, and suitable for high speed applications.

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
Water Spray Off Test	<10%	<10%	ASTM D4049
Corrosion Protection (D665B)	Pass (No Rust)	Pass (No Rust)	ASTM D665, Proc. B



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>