



# LSG SYNTHETIC LITHIUM COMPLEX 220 GREASE NO. 1 & 2

High Performance Full Synthetic Lithium Complex Grease  
for Automotive Applications.

High-Viscosity Synthetic Grease for Uncompromising  
Performance in Demanding Vehicle Environments.

# LSG SYNTHETIC LITHIUM COMPLEX 220 GREASE NO. 1 & 2

**LONE STAR**  
GREASE & LUBRICANTS

Are full-synthetic, lithium complex greases specifically formulated for the most challenging high-load, high-temperature, and high-moisture environments typical of the automotive industry.

Featuring a synthetic ISO VG 220 base oil to ensure robust adhesion, exceptional thermal stability, and enhanced resistance to water, road contaminants, and shock loads.

The availability of **NLGI No. 1 and No. 2** grades makes them the ideal choice for centralized lubrication systems on heavy-duty vehicles or manual greased applications where superior adhesion, load-carrying capacity, and corrosion resistance are critical.

Whether exposed to intense braking heat, frequent road spray, heavy impact loads, or abrasive dust and dirt, **LSG Synthetic Lithium Complex 220 Greases** offer long-lasting protection and the opportunity to reduce regressing intervals.

This grease is meticulously designed to resist oxidation, water washout, and wear under extreme conditions, making it an optimal choice for demanding applications across wheel bearings, chassis points, universal joints, and fifth wheels that require superior performance and extended lubricant life.

## KEY FEATURES

- **Full synthetic base oil with ISO VG 220 viscosity** for improved lubricant protection, increased load-carrying capacity, and broad temperature performance, critical for heavy-duty and automotive components.
- **Lithium complex thickener** for high dropping point and superior thermal stability, maintaining consistency in extreme operating temperatures encountered in vehicle systems.
- **NLGI No. 1 and No. 2 consistency** for versatile automotive application, ensuring pumpability in centralized systems and structural durability for heavy-duty bearings and applications.
- **Outstanding resistance to water, road spray, and salt contamination**, providing critical protection against common automotive and off-highway environmental contaminants.
- **Exceptional anti-wear and extreme pressure (EP) properties**, safeguarding components under severe loads and continuous driving conditions experienced by vehicle drivelines and suspensions.
- **Suitable for extended drain intervals under severe conditions**, reducing maintenance frequency and operational costs for vehicle fleets.

## CUSTOMER BENEFITS

- ✓ **Provides long-lasting protection in extreme heat, high humidity, and water-present environments**, safeguarding valuable automotive and heavy equipment.
- ✓ **Reduces gear and bearing wear and friction** in enclosed and open systems, enhancing efficiency and increasing component life.
- ✓ **Protects bearing and components under heavy loads and continuous operation**, minimizing costly repairs and unplanned downtime for vehicles.
- ✓ **Delivers consistent performance across broad temperature ranges**, from ambient to high operating heat, ensuring reliable vehicle function in varied climates.
- ✓ **Compatible with centralized and manual lube delivery systems**, simplifying application and ensuring thorough lubrication for automotive fleets.
- ✓ **Resists contamination ingress** from dirt, mud, salt, and other common road debris.

## APPLICATIONS

**LSG Synthetic Lithium Complex 220 Greases** are recommended for:

- Wheel bearings in heavy-duty trucks, buses, trailers, and off-highway equipment.
- Chassis lubrication points in commercial and agricultural vehicles.
- Universal joints and drive-line components.
- Construction equipment, mining vehicles, and other heavy machinery operating in severe conditions.
- Industrial bearings and heavy-duty components on vehicles exposed to high loads and temperatures.
- Any automotive application requiring an ISO VG 220 synthetic, water-resistant grease with high load-carrying capabilities.

# 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)	220	220	ASTM D445
Oil Separation (24 hr @ 100°C), %	<3	<3	ASTM D1742
Four Ball Weld Load (kg)	400	400	ASTM D2596
Four Ball Wear (mm)	0.45	0.45	ASTM D2266
Timken OK Load (lbs)	45	45	ASTM D2509
Water Washout, % @ 175°F	<2	<2	ASTM D1264
Rust Test	Pass	Pass	ASTM D1743
Color	Red	Red	Visual
Texture	Smooth / Tacky	Smooth / Tacky	Visual
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>