

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

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

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

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**LONE STAR**  
GREASE & LUBRICANTS

Is a full-synthetic, lithium complex grease specifically formulated for the most challenging high-load, high-temperature, and high-moisture environments typical of diverse industrial sectors.

Featuring a synthetic base oil with ISO VG 220 viscosity, this grease ensures robust lubricant film strength, exceptional thermal stability, and enhanced resistance to water, steam, and contaminants commonly found in manufacturing and processing plants.

The availability of NLGI No. 1 and No. 2 consistency provides excellent mechanical stability and versatility, making it an ideal choice for centralized lubrication systems on large machinery or manual application where superior adhesion, load-carrying capacity, and corrosion resistance are critical.

Whether exposed to intense operational heat, frequent water spray, heavy impact loads, or abrasive dust and debris, **LSG Synthetic Lithium Complex 220 Greases** offer long-lasting protection and significantly reduce maintenance cycles in continuous operations across various industries.

This grease is meticulously designed to resist oxidation, water washout, corrosion, and wear under extreme mechanical stress—making it an optimal choice for demanding applications across heavily loaded bearings, gear couplings, conveyors, crushers, and other critical plant machinery that require superior performance and extended lubricant life.

## KEY FEATURES

- **Full synthetic base oil** with ISO VG 220 viscosity 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. 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

- ✓ Provides long-lasting protection in extreme heat, high humidity, and water-present environments, safeguarding valuable industrial equipment.
- ✓ Reduces gear and bearing wear and friction in enclosed systems and open components, enhancing efficiency and component lifespan.
- ✓ Extends bearing and component life under heavy loads and continuous operation, minimizing costly repairs and unplanned downtime.
- ✓ Delivers exceptional performance across broad temperature ranges, from extreme cold to high operating heat, ensuring reliable machinery function in varied industrial settings.
- ✓ Highly compatible with centralized and manual lube delivery systems, simplifying application and ensuring thorough lubrication across the plant.
- ✓ Excellent adhesion features resists contamination from dust, dirt, fibers, and other common industrial debris, minimizing internal damage to lubricated parts.

## APPLICATIONS

**LSG Synthetic Lithium Complex 220 Grease No. 1 & 2** is recommended for:

- **Heavy-duty bearings:** Journal and anti-friction bearings operating under high loads, moderate speeds, and wide temperature ranges in manufacturing and processing equipment.
- **Conveyor systems:** Bearings in crushers, screens, mixers, and material handling equipment.
- Industrial presses, pumps, fans, and blowers.
- Gear couplings, universal joints, and splines in various industrial drives.
- Machine tools, textile machinery, and general manufacturing equipment.
- Large industrial bearings, slide-ways, and other lubrication points in demanding plant environments.
- Any application requiring an ISO VG 220 synthetic, water-resistant grease with high load-carrying and wear protection capabilities in general industrial settings.

## 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
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
Water Spray Off Test	<10%	<10%	ASTM D4049
Corrosion Protection	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>