



LSG CALCIUM SULFONATE COMPLEX 220 GREASE NO. 2

Calcium Sulfonate Complex Grease for Heavy-Duty
Applications in the Construction Industry.

Unmatched Protection Against Wear, Corrosion, and
Contamination for Equipment & Job Sites.

LSG CALCIUM SULFONATE COMPLEX 220 GREASE NO. 2

Is a high-performance, over-based calcium sulfonate complex grease engineered for versatile, heavy-duty applications in the **construction industry**.

Built to endure harsh working environments, it offers unmatched film strength, excellent high-temperature performance, and superior resistance to water washout, rust, and corrosion.

This grease is specially formulated without harmful additives, aligning with environmentally responsible practices while minimizing the risk of contamination.

It is ideal for excavators, wheel loaders, dozers, articulated dump trucks, cranes, and any construction machinery where equipment is exposed to heavy shock loading, constant moisture, mud, concrete washout, or abrasive dust.

LSG Calcium Sulfonate Complex 220 Grease No. 2 has been refined to deliver exceptional mechanical stability, thermal resilience, and load-bearing capability.

KEY FEATURES

- **Calcium sulfonate complex thickener** for superior EP and anti-wear performance, ideal for the heavy loads, impact, and wear protection on construction sites.
- **Exceptional water resistance** does not wash out easily from constant rain, high-pressure washdowns, or prolonged operation in mud and standing water.
- **Excellent mechanical stability** and high dropping point, maintaining integrity under the demanding mechanical and thermal stress of construction work.
- **Rust and corrosion inhibited** for long service in wet or corrosive environments, protecting parts against moisture, aggressive soil, and chemicals encountered on construction sites.
- **NLGI No. 2 consistency** ideal for general purpose and severe-duty use across construction machinery equipment.

CUSTOMER BENEFITS

- ✓ Withstands heavy loads and shock loading in demanding heavy-duty construction equipment and attachments.
- ✓ Delivers excellent adhesion to metal surfaces, reducing grease loss from vibration, impact, and harsh job site conditions.
- ✓ Protects against rust and corrosion caused by moisture, environmental contamination, and chemicals encountered on construction sites.
- ✓ Reduces downtime by maintaining integrity under severe mechanical and thermal stress, keeping equipment available for critical project deadlines.
- ✓ Extends relubrication intervals, saving labor and material cost on busy construction sites.

LONE STAR
GREASE & LUBRICANTS

Its proprietary formulation incorporates high-viscosity base oils, performance polymers, and a unique calcium sulfonate thickener system—creating a robust lubricant that adheres securely to metal surfaces, even under vibration, extreme heat, or mechanical shear from demolition, digging, and hauling operations.

Unlike conventional lithium greases, this grease performs reliably at elevated temperatures and does not soften excessively, preventing loss of lubrication. Its water resistance is outstanding, making it the preferred choice in applications with frequent exposure to rain, high-pressure washdowns, or components often operating in mud and standing water on construction sites.

LSG Calcium Sulfonate Complex 220 Grease No. 2 ensures optimal protection and extended equipment life across a wide spectrum of operating conditions, delivering confidence in uptime and reduced maintenance costs on demanding job sites.



APPLICATIONS

LSG Calcium Sulfonate Complex 220 Grease No. 2 is suitable for a wide variety of construction applications, including:

- Excavators, Wheel Loaders, Dozers, Articulated Dump Trucks, Motor Graders, Compaction Equipment, Cranes, and Concrete Pumps.
- Bucket pins and bushings, boom pivot points, slew rings, kingpins, and chassis pivot points.
- Track rollers and idlers on tracked machinery.
- Drum bearings on asphalt pavers and soil compactors.
- Universal joints and driveline components on heavy construction vehicles.
- Any heavy-duty application in construction where equipment is exposed to severe water washout, corrosion from chemicals/moisture, and heavy mechanical loading.

PACKAGING:



Cartridges
14 oz.



Pails
35 lbs.



Kegs
120 lbs.



Drums
400 lbs.

*Custom and Bulk Packaging available upon request.

TYPICAL PROPERTIES

Property	Value	Test Method
NLGI Grade	2	ASTM D217
Worked Penetration (60X)	265–295	ASTM D217
Dropping Point (°C)	>260	ASTM D2265
Base Oil Viscosity @ 40°C (cSt)	220	ASTM D445
Four Ball Weld Load (kg)	500	ASTM D2596
Four Ball Wear (mm)	0.40	ASTM D2266
Timken OK Load (lbs)	60	ASTM D2509
Water Washout, % @ 175°F	<1	ASTM D1264
Rust Test	Pass	ASTM D1743
Color	Amber	Visual
Texture	Smooth / Tacky	Visual
Copper Corrosion	1B	ASTM D4048



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>