



LSG CALCIUM SULFONATE COMPLEX 220 GREASE NO. 2

Calcium Sulfonate Complex Grease for Heavy-Duty
Applications in Agriculture & Forestry.

Unmatched Protection Against Wear, Corrosion, and
Contamination for Farm & Forest Equipment.

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LONE STAR
GREASE & LUBRICANTS

Is a high-performance, over-based calcium sulfonate complex grease engineered for versatile, heavy-duty applications in the **agriculture and forestry 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 tractors, combines, feller bunchers, skidders, tillage equipment, and any farm or forest machinery where equipment is exposed to heavy shock loading, constant moisture, mud, fertilizers, crop residue, sap, 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. 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, heat, or mechanical shear from demanding field and forest 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 of farm equipment, or components often operating in mud and standing water.

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 during critical seasons.

KEY FEATURES

- **Calcium sulfonate complex thickener** for superior EP and anti-wear performance, ideal for the heavy loads and impacts in agriculture and forestry.
- **Exceptional water resistance** — does not emulsify or wash out easily from wet fields, high-pressure washdowns, or prolonged moisture exposure.
- **Excellent mechanical stability** and high dropping point, maintaining integrity under the demanding mechanical and thermal stress of field work.
- **Rust and corrosion inhibited** for long service in wet or corrosive environments, protecting against moisture, fertilizers, and acidic sap.
- **NLGI No. 2 consistency** is ideal for general purpose and severe-duty use across farm and forest machinery.



CUSTOMER BENEFITS

- ✓ Withstands heavy loads and shock loading in demanding heavy-duty farm implements and forestry attachments.
- ✓ Delivers excellent adhesion to metal surfaces, reducing grease loss from vibration and harsh field conditions.
- ✓ Protects against rust and corrosion caused by moisture, fertilizers, pesticides, and acidic sap found in agricultural and forestry environments.
- ✓ Reduces downtime by maintaining integrity under severe mechanical and thermal stress, crucial for long workdays and critical seasons.
- ✓ Extends relubrication intervals, saving labor and material cost during busy planting, harvesting, or logging periods.

APPLICATIONS

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

- **Tractors:** Wheel bearings, axles, pivot points, hitches, and chassis lubrication.
- **Combines, Balers, Planters, Cultivators, Sprayers, and Tillage Equipment:** Heavily loaded bearings, pins, bushings, and pivot points on headers, threshing units, baler knotters, and other implements.
- **Forestry Equipment:** Feller bunchers, skidders, de-limbers, mulchers, log loaders, chippers, and their associated heavily loaded pins, bushings, and pivot points.
- **Irrigation Systems:** Bearings and other components exposed to constant water.
- **Wheel hubs, universal joints, and drivelines** on all heavy agricultural and forestry vehicles.
- Any heavy-duty application in agriculture and forestry 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>