



LSG PELLET MILL 1 GREASE

CALCIUM SULFONATE COMPLEX GREASE FOR HEAVY-DUTY PELLET MILL APPLICATIONS.

UNMATCHED PROTECTION AGAINST WEAR, CORROSION, AND HIGH TEMPERATURES IN PELLET MILLS.

PRODUCT DATA SHEET

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LONE STAR
GREASE & LUBRICANTS



PRODUCT DATA

LSG Pellet Mill 1 Grease is a high-performance, over-based calcium sulfonate complex grease engineered for versatile, heavy-duty applications within pellet mills.

Built to endure the harsh working environments of pelletizing operations, 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 where feed or wood product contact may be a concern, while minimizing the risk of contamination.

It is ideal for pellet mill roller bearings, main shafts, gearbox components, and other critical parts exposed to continuous high loads, heat from friction and steam, and the constant presence of process dust and moisture.

LSG Pellet Mill 1 Grease has been refined to deliver exceptional mechanical stability, thermal resilience, and load-bearing capability. Its proprietary formulation incorporates high-viscosity base oils (ISO VG 220), performance polymers, and a unique calcium sulfonate thickener system—creating a robust lubricant that adheres securely to metal surfaces, even under the severe vibration, intense heat, or mechanical shear typical in pelletizing processes.

Unlike conventional lithium greases, this grease performs reliably at elevated temperatures (especially common in pellet mill dies and rollers) and does not soften excessively, preventing loss of lubrication and ensuring a consistent wear protection. Its water resistance is outstanding, making it the preferred choice in applications with frequent exposure to steam, high-pressure washdowns, or moisture from raw materials.

LSG Pellet Mill 1 Grease ensures optimal protection and extended equipment life across the demanding spectrum of pellet mill operating conditions, delivering confidence in uptime, reduced maintenance costs, and consistent pellet production.

CUSTOMER BENEFITS

- ✓ **Withstands extreme pressure and shock loading** in demanding pellet mill applications, extending bearing and component life.
- ✓ **Delivers excellent adhesion to metal surfaces**, reducing grease loss even with high vibration and preventing lubricant starvation.
- ✓ **Protects against rust and corrosion** caused by moisture and process contaminants, preserving critical machinery and improving bearing life.
- ✓ **Reduces downtime** by maintaining grease integrity under severe mechanical and thermal stress, maximizing production uptime.
- ✓ **Extends relubrication intervals**, saving labor, material cost, and improving maintenance efficiency in busy plants.

KEY FEATURES



Calcium sulfonate complex thickener for superior inherent EP (Extreme Pressure) and anti-wear performance, critical for heavy-loaded roller bearings.



Exceptional water resistance — does not emulsify or wash out easily, vital in steam-rich and washdown environments.



Excellent mechanical stability and high dropping point, maintaining consistency and lubrication film under continuous high shear and heat.



Inherent rust and corrosion protection for long service life in wet, humid, or corrosive environments common to pellet production.



NLGI No. 2 consistency ideal for general purpose and severe-duty use, suitable for automatic lubrication systems and manual greasing.



ISO VG 220 base oil provides robust film strength for heavy loads and slower speeds.

APPLICATIONS

LSG Pellet Mill 1 Grease is specifically recommended for demanding applications within the pellet mill industry, including:



Pellet Mill Roller Bearings:
The most critical application, enduring extreme heat, pressure, and potential steam.



Main Shaft and Jackshaft Bearings:
Providing robust protection under continuous operation.



Reducer Gearboxes and Couplings:
Where grease lubrication is specified.



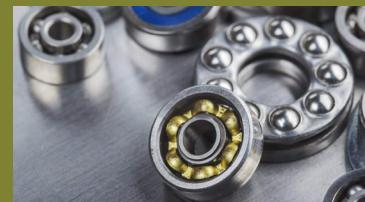
Hammermill Bearings: Handling high speeds, impacts, and dust.



Die and Roller Assemblies:
Ensuring smooth operation and extended life.



Conveyor Bearings:
Particularly those exposed to process heat or washdowns.



Any bearings and bushings under high loads, frequent water exposure, or high temperatures prevalent in biomass, feed, or wood pellet

This grease is formulated for high-performance needs where extreme mechanical loading, high temperatures, water washout, and corrosion are major concerns in pelletizing operations.

PACKAGING



Cartridges
14 oz.



Pails
35 lbs.



Kegs
120 lbs.



Drums
400 lbs.

*Custom and Bulk Packaging available upon request.

TYPICAL PROPERTIES

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.

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	Yellow	Visual
Texture	Smooth / Tacky	Visual
Copper Corrosion	1B	ASTM D4048

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 greases. 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>

EXPLORE THE LONE STAR DIFFERENCE. GET IN TOUCH WITH US TODAY

LONE STAR
GREASE & LUBRICANTS

LET'S WORK TOGETHER

We're more than a supplier—we're a partner in your operation. Whether you need a custom solution, dependable logistics, or technical guidance, we're here for you every step of the way.

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