

LSG CALCIUM SULFONATE COMPLEX 460 NO.0 AND 1

Advanced Lubrication & Corrosion Protection for Wire Ropes and Cables

Penetrating, Adherent Grease for Extended Wire Rope Life in Demanding
Environments.

LSG CALCIUM SULFONATE COMPLEX 460 NO.0 AND 1

LONE STAR
GREASE & LUBRICANTS

Is a high-performance, semi-fluid to soft grease specifically engineered to meet the unique and demanding lubrication and protection requirements of wire ropes and cables. Formulated with a robust **Calcium Sulfonate Complex thickener** and high-viscosity mineral base oils (ISO VG 460), this grease delivers exceptional film strength, superior internal and external corrosion protection, and outstanding water resistance.

Wire ropes are complex mechanical devices requiring lubricants that can penetrate to the core to reduce friction between individual strands while simultaneously protecting the exterior from environmental degradation. **LSG Calcium Sulfonate Complex 460 No.0 and 1** excels in this dual role, providing a tenacious, self-healing film that **penetrates deep into the rope's core**, preventing premature internal wear, corrosion, and strand breakage.

KEY FEATURES

- **Calcium Sulfonate Complex thickener** for unparalleled water resistance and superior corrosion protection.
- **High-viscosity (ISO VG 460) base oil** ensures robust film strength and cushioning between strands.
- **Excellent penetration** properties to lubricate and protect the wire rope core, not just the surface.
- **Highly adhesive and tenacious film** minimizes fling-off and stays in place under dynamic loads and environmental exposure.

Its highly adhesive nature ensures minimal fling-off, even on fast-moving ropes.

Designed for the harshest conditions, this grease resists breakdown from saltwater, fresh water washout, extreme pressure, and wide temperature fluctuations. Its advanced additive package provides excellent anti-wear and extreme pressure (EP) properties, safeguarding ropes operating under heavy loads and high-stress conditions common in marine, mining, construction, and heavy industrial applications.

Available in NLGI Grade 0 and 1, **LSG Calcium Sulfonate Complex 460 No.0 and 1** offers versatility in application methods, ensuring effective lubrication whether applied by brush, drip, pressure spray, or through automated systems, ultimately extending wire rope service life and enhancing operational safety.

- **Superior saltwater and freshwater washout resistance**, ideal for marine and outdoor use.
- Outstanding Extreme Pressure (EP) and anti-wear protection for heavy-duty applications.
- Available in **NLGI #0 and #1 consistency** for versatile application methods.

CUSTOMER BENEFITS

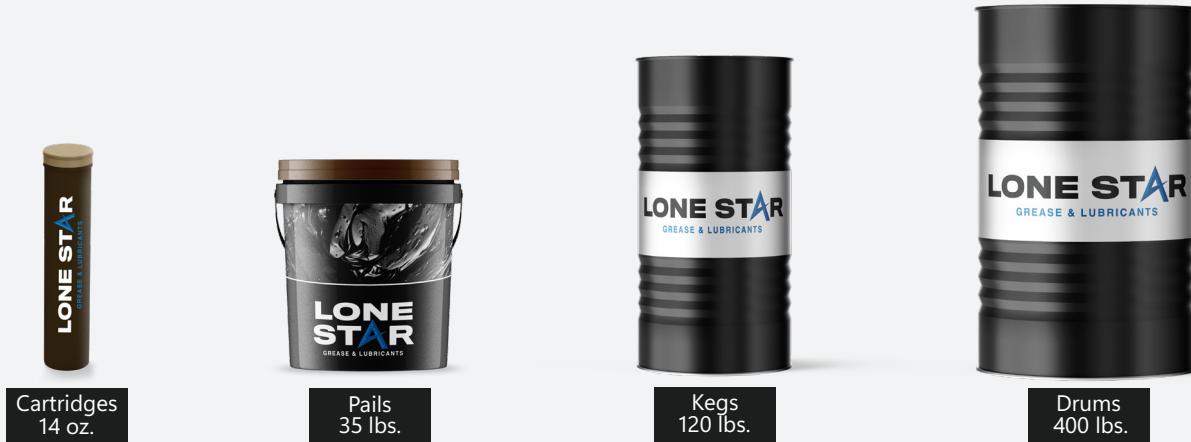
- ✓ **Significantly extends wire rope service life** by preventing internal and external corrosion and wear.
- ✓ Reduces friction between individual strands, minimizing heat generation and energy consumption.
- ✓ **Enhances operational safety** by maintaining rope integrity and flexibility.
- ✓ Minimizes re-lubrication frequency, leading to **reduced maintenance costs and downtime**.
- ✓ Performs reliably in the most demanding environments, including **submerged, salty, and high-humidity conditions**.
- ✓ **Resists water ingress and protects against rust**, even with prolonged exposure to moisture.

APPLICATIONS

LSG Wire Rope Grease is recommended for the lubrication and protection of:

- **Cranes and Hoists:** Lifting ropes, boom cables, hoist lines.
- **Marine Vessels & Offshore Platforms:** Mooring lines, anchor cables, winch ropes, cargo slings.
- **Mining Equipment:** Draglines, shovels, underground haulage ropes.
- **Construction Machinery:** Excavator cables, dozer blades, scaffolding ropes.
- **Logging & Forestry Equipment:** Skidder cables, winch lines.
- **Conveyor Systems:** Wire rope conveyors, material handling cables.
- All types of wire ropes and cables operating in outdoor, wet, or corrosive environments.

PACKAGING:



*Custom and Bulk Packaging available upon request.

TYPICAL PROPERTIES

Property	No. 0	No. 1	Test Method
NLGI Grade	0	1	ASTM D217
Worked Penetration (60X)	355–385	310–340	ASTM D217
Dropping Point (°C)	>300	>300	ASTM D2265
Base Oil Viscosity @ 40°C (cSt)	460	460	ASTM D445
Four Ball Weld Load (kg)	400	400	ASTM D2596
Four Ball Wear (mm)	0.45	0.45	ASTM D2266
Water Washout, % @ 175°F	<2	<2	ASTM D1264
Rust Test	Pass	Pass	ASTM D1743
Color	Amber	Amber	Visual
Texture	Smooth / Tacky	Smooth / Tacky	Visual
Salt Water Test	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://lonestargrl.com>