



Calcium sulfonate grease fortified with 5% MoS₂ for heat, pressure, and harsh environments.

MicroLub MolyShield™ 32 is a premium calcium sulfonate complex grease specially engineered for extreme temperature, pressure, and shock-load conditions. Fortified with 5% molybdenum disulfide (MoS₂), it forms a solid protective barrier on metal surfaces, ensuring superior resistance to wear, fretting, and scuffing under boundary lubrication conditions.

Heat and Load Stability

MicroLub MolyShield™ 32 is an advanced calcium sulfonate complex grease enhanced with 5% molybdenum disulfide (MoS₂). Engineered for extreme performance, it delivers exceptional EP and anti-wear protection, providing reliable lubrication in severe shock loads, elevated temperatures, and challenging wet environments.

Designed for use in automotive, mining, construction, steel mills, and heavy industrial applications, MolyShield delivers outstanding EP performance, thermal stability, and water resistance, making it an ideal choice for high-load bearings, pins, bushings, and open gear applications.

Automotive Industry Applications

MicroLub MolyShield™ 32 with 5% MoS₂ is highly suited for demanding automotive environments where heat, pressure, and water exposure are common. It provides superior protection in wheel bearings, CV joints, U-joints, and suspension components subject to heavy shock loads. The grease resists washout in wet conditions, making it ideal for off-road vehicles, trucks, and buses. Its high thermal stability supports brake caliper pins and clutch bearings exposed to elevated temperatures. By reducing wear, fretting, and corrosion, MolyShield extends service life, minimizes downtime, and ensures reliable performance in passenger vehicles, heavy-duty fleets, and specialized automotive applications.

Exceptional Reliability in Steel Industry

MicroLub MolyShield™ 32 with 5% MoS₂ is specially designed to meet the harsh demands of the steel industry, where extreme heat, heavy loads, and water exposure are constant challenges. It provides reliable lubrication for roll neck bearings, continuous casting machines, conveyors, and ladle mechanisms operating under severe conditions. The grease maintains stability at high temperatures near furnaces and offers strong protection against shock loads and vibration in mill stands and heavy-duty bearings. Its superior water resistance ensures performance in wet or cooling-water environments, while its corrosion protection prevents rust in humid, high-moisture areas. With extended relubrication intervals and excellent wear resistance, MolyShield reduces downtime, lowers maintenance costs, and ensures smooth, uninterrupted steel production.

Applications.

- Heavy-duty mining and construction machinery.
- Electrical Motor Bearing grease
- Steel mills, paper mills.
- Cement plants.
- Aggregate and quarry operations.
- Agricultural machinery.
- Forest and lumber industry.
- Power generation and hydroelectric plants.
- Asphalt plants.
- Municipalities and recreation facilities.



Delivers high Extreme Pressure (EP) and anti-wear protection



Fortified with 5% molybdenum disulfide (MoS₂) for reliable boundary lubrication



Maintains thermal and mechanical stability under severe operating conditions



Offers outstanding corrosion resistance, even in wet or saltwater environments



Ensures superior shear stability, extending relubrication intervals



Features a high dropping point (>280 °C) for demanding high-temperature applications



Resists water washout and oxidation, ensuring consistent performance

Mining Industry

MicroLub MolyShield™ 32 with 5% MoS₂ provides reliable lubrication for mining equipment such as shovels, crushers, conveyors, and heavy-duty bearings. It withstands extreme loads, shock, dust, and wet conditions while offering superior EP protection, water resistance, and corrosion control—reducing downtime, extending service life, and boosting productivity in mining operations.

Superior Corrosion Resistance

MicroLub MolyShield™ 32 shields metal surfaces from rust, oxidation, and saltwater attack, ensuring reliable protection in marine, industrial, and harsh environments where conventional greases fail to prevent corrosion.

Typical Properties

Property	Test Method	NLGI #2	NLGI #1
Appearance	Visual	Red, tacky	Red, Clear
Worked Penetration (60 Strokes)	ASTM D217	265–295	310–340
Dropping Point (°C)	ASTM D2265	>288	288
Base Oil Viscosity @ 40°C (cSt)	ASTM D445	220	220
Base Oil Viscosity @ 100°C (cSt)	ASTM D445	16	16
4-Ball Weld Load (kgf)	ASTM D2596	800	800
4- Ball Wear Test	ASTM D-2266	0.6 Max	0.6 Max
Water Washout @ 80°C (%)	ASTM D1264	<1	<1
Rust Prevention	ASTM D1743	Pass	Pass
Copper Corrosion	ASTM D130	1A	1A
Operating Temperature Range	—	-20°C to +190°C (peaks 200°C)	-30°C to +190°C (peaks 180°C)

Available in 400g cartridges, 35lb Pails, Kegs, and Drums