



“Red, Tacky, Relentless – Lubrication Without Compromise.”

MicroLub Endura 78 is a high-performance calcium sulfonate grease specifically formulated for severe-duty industrial, mining, construction, marine, and material-handling applications. Utilizing advanced calcium sulfonate thickener technology, Endura 78 delivers outstanding mechanical stability, exceptional resistance to water washout, and superior load-carrying capability under extreme operating conditions.

High EP & Load-Carrying Ability

The grease forms a durable lubricating film that protects components subjected to heavy loads, shock loading, vibration, and slow-speed/high-torque service. Its inherent corrosion and oxidation resistance helps extend equipment life in wet, humid, dusty, and chemically aggressive environments while maintaining lubrication integrity over extended service intervals.

- Withstands shock loads and sudden torque spikes
- Prevents scuffing, pitting, and metal-to-metal contact
- Provides reliable lubrication in heavy-duty bearings, couplings, and gear systems
- Maintains protective film integrity under high pressure, high load, and severe operating conditions

This ensures longer bearing life, reduced downtime, and superior equipment protection, even in the most demanding industrial, mining, and marine environments.

Thermal & Mechanical Stability

MicroLub Endura 78 delivers exceptional stability under extreme thermal and mechanical conditions. With a dropping point above 280°C, it resists softening, oxidation, and breakdown at high operating temperatures while maintaining consistent film strength. Its calcium sulfonate structure ensures outstanding shear stability, allowing the grease to stay in place under vibration, shock loads, and continuous motion without thinning or leaking. Even in sub-zero environments. This superior stability reduces the need for relubrication, extends service intervals, and ensures reliable protection across demanding industrial applications.

Exceptional Water Resistance

MicroLub Endura 78 is engineered to perform where moisture and water exposure would normally compromise lubrication. Its calcium sulfonate and additive package makes it virtually waterproof, resisting washout, spray-off, and dilution, even in humid or submerged conditions.

The grease maintains adhesion and lubricating strength in the presence of rain, steam, condensation, or saltwater, making it ideal for marine and offshore environments.

This outstanding water resistance prevents corrosion, reduces relubrication intervals, and ensures continuous protection in equipment exposed to frequent washdowns or wet operations. By staying in place under wet conditions, MicroLub Endura 78 guarantees reliable lubrication and superior durability in harsh environments.

Applications.

- Heavy-duty mining and construction machinery.
- Marine propulsion systems and deck machinery.
- Pumps.
- 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.

Key Benefits

MicroLub Endura 78 is designed to deliver significantly longer service intervals compared to conventional greases. Its exceptional resistance to water washout, oxidation, and mechanical shear ensures that the grease stays in place and retains its protective properties for extended periods.

By reducing lubricant breakdown, it minimizes relubrication frequency, saving both time and maintenance costs. The tacky, adhesive structure prevents leakage and ensures a lasting protective film under severe conditions.

This long-life performance improves equipment reliability, reduces unscheduled downtime, and lowers total operating costs, making MicroLub Endura 78 a cost-effective solution for demanding industrial, marine, and heavy-duty applications.

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 | >300 | >300 |
| Base Oil Viscosity @ 40°C (cSt) | ASTM D445 | 460 | 115 |
| Base Oil Viscosity @ 100°C (cSt) | ASTM D445 | 18 | 16 |
| 4-Ball Weld Load (kgf) | ASTM D2596 | 800 | 800 |
| 4- Ball Wear Test | ASTM D-2266 | 0.3 Max | 0.3 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

Extended Service Life

MicroLub Endura 78 resists water, heat, and mechanical stress, reducing relubrication frequency. Its durable, tacky structure ensures longer-lasting protection, improving equipment reliability while cutting downtime and overall maintenance costs.

Superior Corrosion Resistance

MicroLub Endura 78 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.