

### *Maximum Protection for Pins, Bushings & Bearings*



MicroLub Endura 77 is a premium heavy-duty calcium sulfonate grease formulated with a high-performance PAO synthetic blend and fortified with Molybdenum Disulfide (MoS<sub>2</sub>) for extreme pressure protection and long service life.

Endura 77 is specifically designed for heavily loaded pins, bushings, pivot joints, and bearings commonly found in equipment, excavators, loaders, mining machinery, aggregate equipment, asphalt plants, and other heavy industrial applications.

### **High EP & Load-Carrying Ability**

Designed for crushers, loaders, haul trucks, and excavators in the aggregate and mining industry, MicroLub 77's high EP performance and superior load-carrying ability protect critical pivot points from galling, scoring, and premature wear.

### **Resistance to Water**

MicroLub Endura 77 utilizes advanced calcium sulfonate thickener technology for exceptional resistance to water washout and moisture contamination in severe-duty environments. Formulated with a high-performance PAO synthetic blend base oil and Molybdenum Disulfide (MoS<sub>2</sub>), it delivers outstanding adhesion, corrosion protection, and reliable lubrication for heavily loaded pins, bushings, bearings, and pivot joints operating under wet, muddy, dusty, and high-pressure conditions.

### **Thermal & Mechanical Stability**

MicroLub 77 uses a PAO synthetic-blend base oil combined with moly and a calcium sulfonate thickener to deliver exceptional thermal and mechanical stability. The PAO base resists oxidation and viscosity loss at elevated temperatures, while the moly-reinforced film maintains protection under severe mechanical shear and shock loading.

MicroLub 77 provides exceptional corrosion and rust protection through its calcium sulfonate chemistry, PAO synthetic-blend base oil, and moly reinforcement. It forms a highly stable protective film that shields metal surfaces from moisture, salt, acidic contaminants, and abrasive fines commonly found in aggregate and quarry environments.

### **Designed for Heavy Equipments**

Pins and bushings in heavy equipment operate under extremely high loads, slow-moving motion, shock loading, vibration, and severe environmental contamination. These components are constantly exposed to mud, water, dust, and heavy pressure, making proper lubrication critical for equipment reliability and service life.

The advanced calcium sulfonate thickener system provides exceptional adhesion and water resistance, helping the grease remain in place even under wet and harsh operating conditions. The molybdenum disulfide (MoS<sub>2</sub>) content adds an additional solid lubricating layer that continues protecting components during extreme pressure and boundary lubrication conditions.

The PAO synthetic blend base oil improves thermal stability, oxidation resistance, and long-term lubrication performance, helping extend lubrication intervals and reduce equipment downtime.

### **Applications.**

- Excavator pins & bushings
- Loader pins & pivot joints
- Wheel Bearings
- Bucket pins and articulation joints
- Roller bearings and tapered roller bearings
- Jaw crushers and screen bearings
- Mining and quarry equipment
- Wet and contaminated operating environments
- High-load industrial bearings

## Key Benefits

- Excellent pumpability in centralized lubrication systems
- Outstanding protection against shock loading
- Superior load-carrying capability
- Resistant to water, mud, and dust contamination
- Suitable for high-vibration applications
- Excellent bearing protection under slow-moving heavy loads

## Long-lasting wheel bearing protection

MicroLub Endura 77 is a premium PAO synthetic blend calcium sulfonate EP grease reinforced with molybdenum disulfide (MoS<sub>2</sub>) for severe-duty automotive and fleet applications. It delivers outstanding protection for wheel bearings, U-joints, kingpins, suspension components, fifth wheels, and chassis lubrication points operating under heavy loads and shock conditions. Its exceptional resistance to water washout, corrosion, and wear helps extend component life, reduce maintenance costs, and improve overall equipment reliability.

## Typical Properties

Property	Test Method	NLGI #1	NLGI #2
Appearance	Visual	Grey	Grey
Worked Penetration (60 Strokes)	ASTM D217	310-340	265-295
Dropping Point (°C)	ASTM D2265	>280	>280
Base Oil Viscosity @ 40°C (cSt)	ASTM D445	140	226
Base Oil Viscosity @ 100°C (cSt)	ASTM D445	14	22.5
Timken (lb)	ASTM D 2509	70	70
4-Ball Weld Load (kgf)	ASTM D2596	1000	1000
4- Ball Wear Test	ASTM D-2266	0.3 Max	0.3 Max
Water Washout @ 80°C (%)	ASTM D1264	<0.01	<0.01
Rust Prevention	ASTM D1743	Pass	Pass
Copper Corrosion	ASTM D130	1A	1A
Operating Temperature Range	—	-20°C to +190°C	-30°C to +190°C

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

## Compatibility

- Compatible with most lithium complex and calcium sulfonate greases
- Not recommended for mixing with polyurea or clay-based greases
- When switching from another grease, purge old grease for best performance

## Superior Corrosion Resistance

MicroLub Endura 77 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.