



# HD Moly Xtreme

## Calcium Sulfonate Complex Grease with 5% Moly

### General Description

HD Moly Xtreme is a calcium sulfonate complex extreme duty grease developed and recommended for off-highway construction and mining equipment. It contains 5% moly (Molybdenum Disulfide) for superior resistance to wear from shock loading and heavy duty applications. This product is resilient against water washout when used in extreme conditions.

HD Moly Xtreme is produced with specially selected base oils combined with a modern calcium sulfonate complex thickener for high-temperature performance, high moisture protection and outstanding water resistance. Molybdenum Disulfide (Moly) and extreme pressure (EP) additives are present to protect against wear, metal-to-metal contact and extreme shock loading. This carefully balanced additive package also provides superior rust, corrosion, oxidation, and wear protection.

This product is designed for operators of the following manufacturers' equipment: Caterpillar, Komatsu, Dresser, Terex, Le Tourneau and P&H. Application points are found across dozers, scrapers, shovels, haul trucks, cranes and drag lines.

### Features and Benefits

- **Extreme Pressure Performance:** Superior extreme pressure properties (60 lb. Timken Load) provided by the calcium sulfonate complex thickener prevents wear and reduces maintenance costs.
- **Long Life:** Enhanced oxidative, structural and thermal stability lead to longer grease life, less frequent greasing, extended equipment life and reduced down time.
- **High Moly Content:** HD Moly Xtreme contains 5% Molybdenum Disulfide ("Moly") effectively reducing metal-to-metal contact in harsh environments where extreme pressure and high shock conditions exist.
- **Shock Loading:** Superior EP properties provided by the special thickener combined with the extra high moly content exhibits superior resistance to wear from shock loading, prevents metal-to-metal contact in extreme pressure environments and provides extra protection in heavily loaded components with slower moving, sliding or oscillating motions.
- **High Dropping Point:** A dropping point over 500°F demonstrates HD Moly Xtreme's ability to handle high-temperatures.
- **Rust and Corrosion Protection:** Excellent rust and corrosion prevention in the presence of high moisture leads to prolonged equipment component life.
- **Water Washout Resistance:** Use of modern technology calcium sulfonate complex soap gives HD Moly Xtreme excellent resistance to water washout in wet environments.

### Expect Superior Performance In

- High-temperature applications
- Wet environments
- Extreme pressure, heavy shock load conditions
- Chassis and wheel bearing lubrication

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### Typical Applications

HD Moly Xtreme is recommended for:

- OEM (MPGM) 5% Moly Grease
- NLGI Service GC-LB
- Hot and cold temperature operations
- Slower and medium speed severe load applications
- Shock loading applications
- Fifth wheel grease

### Typical Customers

- Construction Companies
- Mining Service Companies
- Truck Service Shops
- Industrial Plant Equipment
- Agricultural Equipment Operators & Shops

### Typical Properties

| Properties                          | HD Moly Xtreme #2    | HD Moly Xtreme #1    |
|-------------------------------------|----------------------|----------------------|
| NLGI Grade                          | #2                   | #1                   |
| Thickener                           | Ca Sulfonate Complex | Ca Sulfonate Complex |
| Molybdenum Disulfide, Weight %      | 5                    | 5                    |
| Color                               | Grey                 | Grey                 |
| Penetration, 60 strokes (range)     | 265-295              | 310-340              |
| Dropping Point, Minimum °F          | >500                 | >500                 |
| Base Oil Viscosity, cSt @ 40°C      | 150                  | 150                  |
| Base Oil Viscosity, cSt @ 100°C     | 14                   | 14                   |
| Base Oil Viscosity Index            | 90                   | 90                   |
| Base Oil Group                      | Mineral              | Mineral              |
| Timken Load                         | 60                   | 60                   |
| Four Ball Wear Scar                 | 0.5                  | 0.5                  |
| Four Ball EP Weld                   | 800                  | 800                  |
| Four Ball Load Wear Index           | 135                  | 135                  |
| Rust Protection                     | Pass                 | Pass                 |
| Copper Corrosion                    | 1b                   | 1b                   |
| Oxidation Stability @100 hrs        | <5                   | <5                   |
| Oil Separation % Separated          | 2                    | 2                    |
| Water Washout % Loss @ 175°F        | <5                   | <5                   |
| High Temp Wheel Bearing Life, hrs   | N/A                  | N/A                  |
| Low Temperature Torque @ -40°F, N-m | N/A                  | N/A                  |
| Operating Temperature Range °F      | -5 to 300°F          | -5 to 300°F          |
| Operating Temperature Range °C      | -20 to 150°C         | -20 to 150°C         |

The data can vary within given tolerances. Temperature range is given as a guideline only.

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

### Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit [cenex.com/sds-library](http://cenex.com/sds-library).