# Extreme pressure lithium-based grease

## Performance Overview

Maxtop extreme pressure lithium base grease is made by special process by thickening refined mineral oil with 12-hydroxy-hard fatty acid lithium soap and adding additives such as antioxidant, extreme pressure and anti-rust. Designed for high load, high temperature or shock load conditions, providing excellent lubrication and protection. Better temperature resistance, suitable for high temperature or low temperature extreme environment, adapt to a wide temperature range, to ensure that no loss at high temperature.

## Features

**01**

The base oil has moderate viscosity and excellent performance, which can meet the lubrication of heavy load lubricating oil parts in metallurgy, machinery and other industries.

**02**

The soap fiber of the thickener has reasonable structure and uniform distribution, and can maintain good structural characteristics of grease under the action of shear force.

**03**

It has certain anti-rust properties, which can prevent the corrosion of the bearing during operation.

**04**

Free of heavy metals and nitrites, in line with environmental regulations. No corrosion to steel, copper material, compatible with a variety of sealing materials.

## Application Scenario

Continuous rolling mill bearing: withstand high temperature and heavy load, extend the fat change cycle to 3 months.
Conveyor roller gear: reduce tooth surface wear, reduce noise 10dB.
Excavator arm pin: resists impact load and reduces downtime for maintenance.
Crusher bearing: dustproof seal design, adapt to dust environment.
Tower crane rotary gear: resistant to cement dust pollution, reduce tooth surface pitting.
Concrete mixer bearings: waterproof design, suitable for wet environment.

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# Performance indicators of extreme pressure lithium-based grease

| Project | | Quality indicators | | | |
|---|---|---|---|---|---|
| Model | | No. 0 | No. 1 | No. 2 | No. 3 |
| Working cone penetration/(0.1mm) | | 355~385 | 310~340 | 265~295 | 220~250 |
| Dropping point/℃ | not less than | 170 | 175 | | 175 |
| Corrosion (T2 copper sheet, 100℃, 24h) | | No green or black change on copper sheet | | | |
| Similar viscosity (-10℃, 10s -1 )/(Pa·s) | not more than | 150 | 250 | 500 | 850 |
| Extended working cone penetration (100000 times)/(0.1mm) | not more than | 420 | 380 | 350 | 320 |
| Water loss (38℃, 1h) (mass fraction)/% | not more than | - | 10 | 10 | 10 |
| Corrosion resistance (52℃, 48h) | | qualified | | | |
| Extreme pressure performance P B , N | not less than | 588 | | | |