

# Lithium base grease

## ● Performance Overview

Maxtop lithium grease is made of refined mineral oil thickened by hydroxyl fatty acid lithium soap with advanced production technology, and refined by adding antioxidant, anti-rust and other additives, which can replace calcium and sodium grease. The product has excellent high temperature stability, water resistance and mechanical stability, and maintains uniform lubrication structure in a wide temperature range, effectively reducing the wear and corrosion of friction parts. It is suitable for lubrication of bearings, gears, couplings and other parts under high load, wet and high temperature conditions, extending the maintenance cycle of equipment.

## ● Features

### 01

It has strong versatility and excellent mechanical stability and oxidation stability.

### 03

Good water resistance and rust resistance, can be used on mechanical parts that are wet and in contact with water.

### 05

Extreme pressure additives reduce the risk of direct metal contact at high loads and are suitable for impact load conditions.

### 02

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### 04

It has the characteristics of good low temperature starting performance and no increase in torque.

### 06

No corrosion to metal, plastic and rubber seals (through elastomer compatibility test).



## ● Application Scenario

1. Core equipment lubrication  
Bearing lubrication: automotive hub bearings, motor bearings, industrial fan bearings.  
Transmission components: universal joint, chassis suspension joint, reducer gear.  
Other applications: water pump couplings, power tool gearboxes, agricultural machinery hinges.
2. Typical industry coverage  
Automotive industry: car, heavy truck hub bearing lifelong lubrication.  
Industrial manufacturing: steel, cement, paper industry high temperature bearings.  
Engineering machinery: excavator, loader joint lubrication.  
Household appliances: air conditioning outdoor unit fan bearing, washing machine clutch.
3. Harsh conditions adaptation  
Humid environment (such as port machinery), high temperature equipment (such as oven bearings), frequent start-stop equipment.

# Lithium-based grease performance indicators

Project		Quality indicators		
Model		No. 1	No. 2	No.3
Appearance		Light yellow to brown smooth ointment		
Working cone penetration/(0.1mm)		310~340	265~295	220~250
Dropping point/°C not less than		170	175	180
Corrosion (T2 copper sheet, 100°C, 24h)		No green or black change on copper sheet		
Steel mesh oil separation (100°C, 24h) (mass fraction)/% No more than		10	5	5
Evaporation (99°C, 22h) (mass fraction)/% not more than		2	2	2
Similar viscosity (-15°C, 10s <sup>-1</sup> )/(Pa·s) not more than		800	1000	1300
Extended working cone penetration (100,000 times)/ (0.1mm) No more than		380	350	320



# Maxtop®