

# Anhydrous calcium-based grease

## ● Performance Overview

Maxtop The anhydrous calcium base grease is refined from mineral base oil thickened by stearic acid and 12-hydroxy-calcium stearate soap. It is a high performance grease designed for lubrication in high temperature, high pressure or humid environments. High temperature does not lose: maintain stable lubrication effect in high temperature environment, drop point is greater than 140°C. Extended life: Compared with ordinary calcium-based fat, the service life is extended by 3-4 times. No emulsification in water: maintain stable lubrication performance and prevent water intrusion. Hygroscopic resistance: Excellent hygroscopic resistance, suitable for humid environment.

## ● Features

### 01

It has good water resistance, is not easy to emulsify in water, and can be applied to the lubrication of various mechanical parts in wet environment or in contact with water.

### 02

It has good shear stability and thixotropic stability, and when it is agitated and then stationary in use, the fat can still remain on the surface of action, resulting in a closed effect without being thrown out.

### 03

It has better pumpability because the fibers of calcium-based greases are shorter and have a lower strength limit.

### 04

Prevent direct contact of friction parts and reduce wear under high load conditions.



## ● Application Scenario

1: Automotive field

Hub bearings: lubrication of automotive hub bearings in cold regions.

Chassis: Lubrication of the chassis of the automobile.

Pump bearings: Lubrication of pump bearings.

Motor and fan bearings: Lubrication of motor and fan bearings.

2: Metallurgical industry

Rolling mill bearings: lubrication of rolling mill bearings.

Continuous casting machine bearings: lubrication of continuous casting machine bearings.

3: Mining machinery

Excavator bearings: Lubrication of excavator bearings.

Loader bearings: Lubrication of loader bearings.

4: Marine equipment

Marine bearings: Lubrication of Marine bearings.

Windlass bearings: Lubrication of windlass bearings.

5: Construction machinery

Concrete mixer bearings: Lubrication of concrete mixer bearings.

Tower crane bearings: Lubrication of tower crane bearings.

# Anhydrous calcium-based grease performance indicators

Project	Quality indicators			
Model	No. 1	No. 2	No.3	No. 4
Appearance	Light yellow to dark brown uniform ointment			
Working cone penetration/(0.1mm)	310~340	265~295	220~250	175~205
Dropping point/°C No less than	80	85	90	95
Corrosion (T2 copper sheet, room temperature, 24h)	No green or black change on copper sheet			
Water (mass fraction)/% No more than	0.2	0.2	0.2	0.2
Ash content (mass fraction)/% not more than	3.0	3.5	4.0	4.5
Steel mesh oil separation (60°C, 24h) (mass fraction)/% not more than	-	12	8	6
Extended working cone penetration (100,000 times)/(0.1mm)No more than	-	30	35	40
Water loss (38°C, 1h) (mass fraction) is not more than	-	10	10	10

