

Calcium-based grease

● Performance Overview

Maxtop calcium-base grease is refined by thickening mineral base oil with animal fatty acid calcium soap. It has good water resistance and mechanical stability. However, because the hydrate generated by calcium soap and water will be hydrolyzed at about 100 ° C, it will become soft and even lose when it exceeds 60 ° C, so the general use temperature does not exceed 60 ° C. Calcium grease is mainly used in the fields of iron and steel, mining, automobile and so on small motor, pump, tractor, automobile, metallurgy, textile machinery and other medium speed, medium load rolling and plain bearings.



● 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. When the same mineral oil is used and the same consistency is made, calcium based greases are easier to draw than other soap based greases (such as sodium or aluminum based greases).

04

Temperature limit: exceeding the specified temperature will lose water and damage the structure, resulting in lubrication failure, so precision bearings are not recommended, and the general use temperature does not exceed 60 ° C.

● Application Scenario

Chassis friction groove: used for lubrication of the chassis friction groove of automobiles and tractors.

Water pump bearings: suitable for lubrication of automobile water pump bearings.

Small and medium-sized motor: used for small and medium-sized motor rolling bearing lubrication, providing reliable lubrication protection.

Pumps and tractors: suitable for rolling bearing lubrication of pumps, tractors and other industrial and agricultural machinery. Steel and mining: In steel, mining and other fields of machinery and equipment, calcium based greases are also widely used in the lubrication of rolling and plain bearings.

Metallurgy and textile machinery: In metallurgy, textile machinery and other fields, calcium grease for medium speed, medium load bearing to provide good lubrication effect.

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	1.5	2.0	2.5	3.0
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

