

Anticorrosion grease for unbonded steel strand

● Performance Overview

Maxtop non-bonded steel stranding anti-corrosion grease is made by thickening refined mineral oil with hydroxyl fatty acid metal soap of advanced production process, and adding additives such as antioxidant, heat stabilizer, anti-wear agent, anti-rust agent, adhesive agent and polymer material sealing adaptation improver. Moisture resistance and corrosion resistance: can maintain stable lubrication and corrosion resistance in humid environment, no emulsification in water, no loss. Long-term protection: form a durable waterproof barrier to prevent water from contacting with the steel strand. Prevent surface rust: effectively prevent steel strand surface rust and corrosion, high chemical stability, no corrosion on the surrounding materials.

● Features

01

Good rust resistance effectively isolates the wire rope from moisture and salt spray, reducing the corrosion of the wire rope exterior.

02

Good adhesion and permeability, not easy to lose or slip during use, thus keeping the working environment clean and tidy.

03

Good extreme pressure and wear resistance, reducing wear and extending the service life of the wire rope.

04

Good water resistance, can resist rain erosion, ensure to meet the use requirements under various climatic conditions.

05

It can withstand certain mechanical pressure, prevent the loss of grease, and maintain stable performance.

06

Reduce the wear of steel strand in the friction process, improve the durability and service life.



● Application Scenario

1: Bridge engineering

Prestressed steel strand: used for bridge prestressed steel strand anti-corrosion and lubrication, improve the durability and safety of bridge structure.

2: Construction works

High-rise building: Used for high-rise building prestressed steel strand anticorrosion and lubrication, enhance the stability and safety of the building structure.

3: Water conservancy project

Dam structure: Used for anti-corrosion and lubrication of dam structure in hydraulic engineering, improve the crack resistance and durability of dam structure.

4: Power transmission

Transmission tower: used for anti-corrosion and lubrication of power transmission tower steel strand, to extend the service life and safety of the transmission tower.

5: Industrial plant

Steel strand protection: used for corrosion prevention and lubrication of steel strand in industrial plant, improve the durability and safety of industrial plant structure.

Performance index of unbonded steel strand anticorrosion grease

Project	Quality indicators		
Model	No. 1	No. 2	No. 3
Working cone penetration/0.1mm	296~325	265~295	235~264
Dropping point/°C	≥165	≥170	≥175
Steel mesh oil separation (100°C, 24h) (mass fraction) /%	≤8.0	≤5.0	≤3.0
Water content (mass fraction)/%	trace		
Corrosion (45# steel sheet, 100°C. 24h)	qualified		
Evaporation loss (99°C, 22h) (mass fraction)/%	≤2.0		
Low temperature performance (-40°C, 30min)	qualified		
Wet heat test (45# steel sheet, 30d) (rust level)/level	≤B		
Salt spray test (45# steel sheet, 30d) (rust level)/level	≤B		
Oxidation stability (99°C, 100h, 758kPa)			
Pressure drop after oxidation/kPa	≤70		
Acid value after oxidation/mgKOH/g	≤1.0		
Compatibility (65°C, 40d)			
Oil absorption rate of sheath material/%	≤10		
Change rate of tensile strength of sheath material/%	≤30		
Ash content (mass fraction)/%	≤10		

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