Synthetic damping oil (MT4119)

Performance Overview

Maxtop Synthetic damping oil (MT4119) uses silicone oil as the base oil. It has excellent viscose-temperature properties and can maintain stable damping characteristics at different temperatures. They also have good antioxidant and anti-aging properties, as well as good chemical and mechanical stability. It is designed to provide excellent viscose-temperature characteristics, chemical stability and damping performance. It is widely used in precision machinery, automotive industry and extreme working conditions. It has strong high temperature stability and is suitable for long-term high load conditions.

Features

01

Good viscosity-temperature performance: provides stable damping force over a wide temperature range.

02

Excellent anti-oxidation property: prolongs the service life of oil.

03

Good chemical stability: non-corrosive to most materials.

04

Good anti-rust and anti-corrosion performance: protects metal parts from corrosion.

05

Water and corrosion resistant: Maintains performance even in wet environments.

06

Low volatility: Reduce oil loss and environmental pollution.

Application Scenario

Suspension system: off-road vehicle shock absorber (high viscosity grade for rough road impact).
Door limiter: Provides a smooth switching experience.
Power seat adjustment: Low viscosity damping oil ensures accurate positioning.
Astronomical telescope: Ensure smooth operation in low temperature environment.
Operating microscope: High stability damping oil (PAO base) prevents performance degradation after prolonged use.
Robot joint: Damping oil (ester base) with excellent shear stability reduces harmonic reducer wear.
Elevator buffer: adapted to extreme climates.
Smart toilet lid: Slow damping oil (high adhesion) to prevent abnormal sound of metal hinges.
Folding mobile phone hinge: to achieve ten thousand times of opening and closing life.

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Performance index of synthetic damping oil (MT4119)

Project		Quality indicators
Appearance		Transparent liquid
Kinematic viscosity (50 ℃), mm2 / s	not less than	120
(40℃)		Report
(-40℃)	not more than	2000
Acid value, mgKOH/g	not more than	0.02
Density (20℃), g/cm3	not less than	1
Evaporation rate (100℃, 3h), %	not more than	2.0
Copper corrosion (100℃, 3h), level	No more than	1a