Fatty acid ester fire resistant hydraulic oil (MTFAE)

Performance Overview

Maxtop fatty acid ester fire resistant hydraulic oil (MTFAE) is a kind of fatty acid ester fire resistant hydraulic oil made from fatty acid ester as the base component, adding a variety of functional agents such as anti-wear agent, oiliness agent and rust inhibitor. High flash point and spontaneous ignition point: will not burn in the event of fire, providing a high level of fire protection. Safe use: Suitable for high temperature or open fire environment to avoid fire accidents. High temperature performance: can maintain performance at high temperature, suitable for high temperature working environment. Stable viscosity: Viscosity that remains stable under temperature changes.

Features

01

Excellent flame resistance: Due to its synthetic ester base, HFDU will not burn when exposed to fire, providing a high level of fire protection.

02

High thermal stability: Able to maintain performance at high temperatures, suitable for high temperature working environments.

03

Good lubricity: Contains anti-wear agents, provides good lubrication effect and reduces equipment wear.

04

High viscosity index: Maintains stable viscosity under temperature changes, suitable for use in a wide temperature range.

05

Good compatibility: Compatible with most hydraulic system materials and seals, including hoses and sealing materials.

06

Long service life: good anti-oxidation and chemical stability, long service life, and reduced oil change frequency.

Application Scenario

It is suitable for hydraulic systems with flame retardancy requirements in industries such as metallurgy, mechanical refining, and mining. For example: hydraulic systems of electric furnaces in steelmaking, hydraulic systems of high-speed wire rod machines, hydraulic systems of plate rolling machines in hot rolling mills, etc.

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Fatty acid ester fire resistance hydraulic oil performance index

Project		Quality indicators	
Viscosity grade (GB/T 3141)		46	68
Kinematic viscosity (40 ℃) / (mm2 /s)		41.4~50.6	61.2~74.8
Appearance		transparent	
Water content (mass fraction) /%	No more than	0.1	
Pour point c /℃		Report	
Mechanical impurities		none	
Density (20℃) / (kg/ m3)		Report	
Acid value (in KOH) / (mg/g)		Report	
Air release value (50℃), min	not more than	8	10
Flash point/℃ not less than		330	
Foam properties (foam tendency/foam stability)/(mL/mL)			
25℃	not more than	150/10	
50℃	not more than	75/10	
25℃	not more than	150/10	
Liquid phase corrosion (24h)		Rust-free	
Copper corrosion (100℃, 3h)/level	No more than	1b	
Rotating oxygen bomb (150℃) min	not less than	100	
Rubber compatibility (60℃/168h)			
Nitrile rubber (NBR 1)			
Volume change rate/%	not more than	7	
Hardness change is	not less than/not greater than	-7/+2	
Tensile strength change rate/%		Report	
Change rate of elongation at break/%		Report	
FZG gear test (A/8.3/90)/failure level	not less than	11	
Vane pump test (100h, total weight loss)/mg	not more than	50	

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