

HFC 4631 Water-Glycol Fire Resistant Hydraulic Fluid

HFC 4631 water-glycol fire resistant hydraulic fluid is highly refined fire resistant hydraulic fluid taking water and glycol as base fluid with high level multi-functional additives such as anti-wear agent, anti-oxidizer, rust inhibitor, defoamer and so on. According to international standard classification, it belongs to water-glycol fire resistant hydraulic fluid of ISO-L-HFC type.

Advantages

- ⊙ Excellent fire resistance, ensuring application safety in case of high temperature and contact with open flame
- ⊙ Extremely low freezing point, ensuring easy startup in condition of low temperature
- ⊙ Perfect high temperature stability (stable real solvent), no deterioration in long storage period of 2 years
- ⊙ Good gas/liquid phase anti-rust ability, and anti-corrosion performance for copper, meeting anti-rust requirement for gas and liquid phases
- ⊙ Outstanding lubricity, ensuring lubrication and service life of hydraulic oil pump
- ⊙ A long service life not less than 10,000h under normal operating mode and work conditions

Performance

The product meets the following specifications:

- ⊙ Q/SH PRD122-2008

Applications

- ⊙ Important fire resistant hydraulic media comprehensively used in hydraulic system in conditions of open flame and high temperature
- ⊙ Suitable for hydraulic system requiring fire resistance in such industries as steel, coal mine, light industry, chemical engineering, machining, plastic processing and so on
- ⊙ Applied temperature range: -50℃~60℃; applied pressure: 20MPa

Typical properties

Items	HFC 4631 water-glycol fire resistant hydraulic fluid	
	Grade 40	Grade 50
Appearance	Transparent liquid of red	
Viscosity, mm ² /s		
40℃	42.96	51.2
-18℃	923	910
Viscosity index	185	230
Density (20℃), g/cm ³	1.082	1.080
Freezing point, ℃	<-50	<-50
pH value	8.9	10.2
Copper piece corrosion (T ₂ Cu, 50℃×3h)	1a	1a
Foam performance, mL		
Foam tendency	0	15
Foam stability	0	0

Precautions

- ⊙ The product can't be used together with mineral type hydraulic oil
- ⊙ Checking water content of the product periodically in order to reduce its fire resistance
- ⊙ Normally, not exceeding 55℃ for open type oil tank and 65℃ for close type oil. In case of high temperature, hydraulic viscosity to be increased by excessive evaporation of water, application effect to be affected