

HYDRAU-PLUS FR PE 46

HYDRAULIC OILS

321301901



FIRE RESISTANT HYDRAULIC FLUID

This hydraulic fluid is formulated with a high flash point, synthetic aryl phosphate ester fluid that delivers superior chemical stability and oxidation resistance. It meets the HFDR fluid requirements as per ISO 6743-4 and can be used as a hydraulic fluid in applications operating near heat sources. Furthermore, this product is self-extinguishing and has excellent ignition resistance, which enhances overall fire safety. It is also considered to be safe and eco-friendly as it lacks GHS classification and labeling. This non-aqueous hydraulic fluid is a wise choice for both performance and sustainability. It is suitable for Steel & aluminum furnaces hydraulics in the steel industry, steel and Alu Die casting, coal Mining equipment, compressors, hydraulic systems, gas & Steam Turbines, suitable seals for use are Viton, PTFE and Butyl rubber

CATEGORY

- Hydraulic Fluids

BENEFITS

- Self-extinguishing properties
- Superior thermal stability
- Good hydrolytic stability
- Anti-wear performance
- Excellent lubrication
- Excellent oxidation resistance
- Fire retardant properties
- No copper & Steel corrosion

PROPERTY	METHOD	VALUE
Appearance		Clear transparent
Fluid type		Aryl phosphate ester
ISO Viscosity Grade	ISO 3448	46
Viscosity @ 40 °C, mm ² /s	ISO 3104	41.4 -50.6
Viscosity @ 100 °C, mm ² /s	ISO 3104	5.0-5.9
Viscosity index	ISO 3348	<35
Density @ 25 °C, kg/dm ³	ISO 2811	1.15
Flash point C.O.C, °C	ISO 2592	281
Pour point (max), °C	ISO 3016	-22
Fire point, °C	ISO 2592	313
Acid number, mg KOH/g	ISO 6619	<0.1
Air release @ 50 C	ISO 9120	5.5 min
Foaming: Tendency Seq 1	ISO 6247	10 ml
Foaming: Stability	ISO 6247	0 ml
Evaporation loss wt % 22 hours @ 150 °C	ASTM D972	0.89
Water content, % wt	ISO 760	<0.1
Water separation	ISO 760	40/40/0(7)
Copper corrosion	ISO 2160	pass
Resistivity	EN 60247	<5 x 10 ⁷
Particle Distribution: NAS Cleanliness Code	NAS 1638	12
Particle Distribution: ISO Cleanliness Code	ISO 4406	22/20/12
4-ball wear test (AW performance) - Scar dm, 40 kg, mm	ASTM D4172	0.52
4-ball wear test (AW performance) - Scar dm, 15 kg, mm	ASTM D4172	0.45
4-Ball wear test (EP performance) - Last non seizure load (LNSL)	ASTM D2783	50 kg
4-Ball wear test (EP performance) - Weld point	ASTM D2783	80 kg

All data on this technical data sheet is indicative only

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