Raysun HFC Fluid

Fire Resistant Hydraulic Fluid

Raysun HFC Fluid is a specially formulated high performance premium quality fire resistant fluid which is used in hydraulic systems where fire resistant fluids are required. Due to special formulation, Raysun HFC Fluid has ignition dampening property which resists fire hazards that might occur in case of accidental fluid contact with elevated-temperature sources in hydraulic systems operating under high pressure. Moreover, lubricity and corrosion protection as well as overall enhanced performance of Raysun HFC Fluid is glycol (polyglycol) based solution formulated with the addition of best quality hi-tech additives to satisfy the requirements claimed by innovative high performance hydraulic systems. In addition, Raysun HFC Fluid has excellent heat transfer property, low pour point, and antifoam performance that along with antiwear component provide extended pump life in .systems operating under high pressure or overloaded conditions

Advantages

- Premium fire resistance properties
- Excellent corrosion protection
- Compatible with common and standard seal materials
- Excellent heat transfer property
- Contains corrosion protection and antiwear additives
- Extended pump life
- Prolonged life of hydraulic systems
- Extend maintenance intervals

Note: There are some application limitations due to compatibility when using water glycol fluids.Regarding metals, the fluid is corrosive to zinc, cadmium and nonanodized aluminum, and the reaction with these metals causes rapid deterioration of the fluid.Synthetic rubber seal and gasket compatibility is good, however polyurethane, leather or cork materials should be avoided. Typical paints will soften in the presence of water .glycols; therefore painted surfaces should be painted with epoxy resin paints

Applications

- Steel Mills
- Die-Casting machines
- Transmission Plants
- Mines
- Forging presses
- Drive systems in hazardous environments
- Robot welding machines

Specification

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ISO Grade	ASTM Method	Specification
46		
Red		Color
1.08	D 1298	Density @ 20°C, kg/l
46	D 445	Viscosity @ 40°C, cSt
-51	D 97	Pour Point, °C
9.63	E 70	pH
45	D 1744	%Water Content, wt
18	D 1121	Reserve Alkalinity, ml/ml
1a	D 130	Copper Strip Corrosion Method A,* 3h@100°C
Pass	D 665,A	Corrosion-Prevention
0.48	D 2783	Ball Wear, Scar dia., mm-4

*Copper Strip corrosion test was run for 3 hours at 100°C instead of 50°C to ensure better corrosion inhibition property of the product than ASTM D 130 and Danieli Type 35 0.151165.D standards.

Note: "All of the results are typical and the results of each batch are presented in the COA sheet."