



Raysun HFDU Fluid

Fire Resistant Hydraulic Fluid

Raysun HFDU Fluid is high performance premium quality fire resistant fluid for using in machines or plants operating in hazardous conditions, where naked flames or high temperatures are present and the fire risk caused by the fluid leakage is high. These fluids are biodegradable synthetic fluid formulated with the best quality hi-tech additives to satisfy the requirements claimed by innovative high performance hydraulic systems. Excellent antiwear property provides extended pump life in system opening under high pressure or overloaded conditions. It has ignition dampening property which resists fire hazards that might occur in case of accidental fluid contact with elevated-temperature sources in hydraulic systems that operating under high pressure. These fluids are available in ISO 46 and ISO 68 viscosity grades. They meet the performance requirements of ISO 6743/4 fulfills the requirements according to 7th Luxembourg Report

Advantages

- Premium fire resistance properties
- Excellent corrosion protection
- Rapid air release, low foaming
- Superior demulsibility helps in faster separation of water from oil and resists formation of emulsions
- Improves life of hydraulic systems also gives extended oil drain and thereby reduces maintenance cost
- High viscosity index, provides good lubrication performance in an extremely wide operating temperature range
- Compatible with mineral oil

Applications

- Raysun HFDU Fluid is recommended for hydraulic applications in environmentally sensitive areas with a high fire risk – immediate vicinity of potential flame or heat sources such as: Iron and Steel working, Rolling mills, Mines, Coking plants, Blast furnaces



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ISO Viscosity Grades		Test Method	Specification
68	46		
Clear Liquid	Clear Liquid		Appearance
0.923	0.92	ASTM D1298	Density @ 15°C, kg/l
68	46	ASTM D445	Viscosity @ 40°C, cSt
186	192	ASTM D2270	Viscosity Index
-42	-45	ASTM D97	Pour Point, °C
>330	>330	ASTM D92	Fire Point, °C
320	318	ASTM D92	Flash Point, °C
<0.01	<0.01	ASTM D4928	%Water Content, wt
1a	1a	ASTM D130	Copper Strip Corrosion Method A, 3h@100°C
Pass	Pass	ASTM D665 A/B	Rust Test
6	4	ASTM D3427	Air Release, min
>12	>12	DIN 51354 P II	FZG fail load stage

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