

KYNOS HYDRA FRE

Hydraulic Oils

KYNOS LUBRICATION PRIVATE LIMITED

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KYNOS HYDRA FRE: Fire Resistant Hydraulic Fluid.

HYDRA FRE is specifically formulated to provide enhanced safety in hydraulic systems operating in high-temperature or fire-prone environments. These fluids are designed to minimize the risk of ignition and provide an extra layer of protection in critical applications where safety is paramount.

It is a long-life hydraulic fluid with high flash point synthetic ester, provided with good lubricating properties and long equipment life. Meets the requirements of ISO 6743/4 standard as fire resistant HFDU and ISO 15380 HEES class. It can be applied as hydraulic fluid whenever operating close to heat source and is highly biodegradable so small leakages will not cause contamination.

Applications

- Hot Rolling and Power Generation Plants.
- Continuous casting.
- Ingots conveyors, metal and dye casting.
- Stamping, forging and sintering.
- Thermic treatments ovens.
- Welding machines.

Use Conditions:

When using Hydra FRE in a circuit which had been operating with a mineral hydraulic oil, it is sufficient to proceed as follows:

- Unload the circuit and clean the tank, making sure that the inner wall is not painted
- Take off and clean the filters
- Load the tank with Hydra FRE to the minimum level
- Run the circuit 1 or 2 hours under low pressure monitoring all movements
- Unload, and then set the filters, load again the tank with new Hydra FRE, and operate in normal conditions

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Typical Performance Data

Properties	Test Method	HYDRA FRE 46	HYDRA FRE 68
ISO Viscosity Grade	ASTM D-2422	46	68
Appearance	Visual	Clear Liquid	Clear Liquid
Viscosity Index	ASTM D-2270	>180	>180
Viscosity @ 40 °C, mm ² /s	ASTM D-445	46	68
Viscosity @ 100 °C, mm ² /s	ASTM D-445	9.13	12.3
Flash Point, °C Minimum	ASTM D-92	>300	>300
Pour Point, °C Max	ASTM D-97	< -30	< -30
Density @ 20 °C, gm/cc	ASTM D-1298	0.925	0.935
TAN, mgKOH/g	ASTM D-974	<1	<1
Demulsibility, ml/min	ASTM D- 1401	Max 40/37/3 (30')	Max 40/37/3 (30')

*All performance data on this Technical Data Sheet are indicative only and may vary during production.