

SYNTH HYDRO HFC - 46 (Synthetic Fire Resistant Hydraulic Fluid)

DESCRIPTION

SYNTH HYDRO HFC is a high performance synthetic fire-resistant hydraulic fluid formulated with polyol ester base stocks, and selected additives. It is specially being formulated with a blend of water, ethylene or diethylene glycol, with high level multi-functional additives such as antiwear agent, anti-oxidizer, rust inhibitor, defoamer and high-viscosity polyglycol thickeners to meet the HFC classification for fire-resistant hydraulic oils of the water-glycol type. It is designed for use in high-pressure hydraulic systems where the requirements for fire resistance, pump wear protection and viscosity are met by water-glycol fluids.

FEATURES & BENEFITS

- Excellent thermal oxidation stability, prevent the deterioration of lubricating oil at high temperature. Outstanding fire-resistant properties, providing safer working conditions for people and plant. Excellent rust and corrosion prevention properties, in both the liquid and the vapour phase, protect the hydraulic system from rust and corrosion and avoid rust debris contamination that can damage components.
- Excellent lubricity and antiwear properties, protect components against wear, extend pump and valve life, and reduce maintenance costs. Excellent stability during storage reduces inventory costs.
- Very high viscosity index provides excellent viscosity-temperature performance, provides protection over a wide operating temperature range. Very low pour point <-45°C ensures good cold-start performance.
- Long fluid service life (up to 10,000 hours) can be achieved when equipment is properly maintained.
- Low toxicity and is readily biodegradable, safer for the environment and the operator.

APPLICATION:

- It can be used as the hydraulic fluid in Industrial and Construction hydraulic mobile equipment's, Piling Rigs, TBN (Tunnel Boring Machine), Excavators, Cranes hydrostatic drives, systems with servo valves, robotics, Hydraulic and power transmission systems including high-pressure systems subjected to a wide range of ambient & operating.
- It is also recommended for hydraulic and fluid power transmission and control systems in very high temperature operating areas. They are suitable for use in metal, mining, power and glass industries. They can replace mineral hydraulic oils where good lubrication and protection against wear is required with higher resistance to fire hazards.

PROPERTIES OF SYNTH HYDRO HFC

ISO Viscosity Grade	46
Color & Appearance	Transparent clear, red fluid
Density @ 20°C, kg/l, ASTM D 4052	1.071
Viscosity Cst @ 40°C	45.6
Viscosity Cst @100 °C	8.1
Viscosity Index,	185
Pour Point °C (Freezing point)	<-45°C
Copper Strip Corrosion	1a
pH	9.1 - 10
Water Content, wt. %	45
Foaming Tendency/Stability, ml Seq III	20/0
Corrosion-Prevention	pass

Additional Information: When converting to new oil kindly flush previous oil before filling, all previous lubricant should be removed as much as possible prior to operation. During initial operation, lubrication intervals should be monitored closely to ensure all previous lubricant is purged.

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