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Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability.

SYNTHETIC FIRE RESISTANT HYDRAULIC

HYSYN® FR SERIES

HySyn® FR Series fluids are based on high quality synthetic, organic, esters and carefully selected additives to achieve excellent hydraulic fluid performance. They provide a lubrication level equal to premium anti-wear hydraulic oils with viscosity grades of 46 and 68. HySyn FR® fluids are fire-resistant with self-extinguishing properties. They are factory mutual certified, non-irritating, biodegradable, non-toxic to aquatic life and contain no hazardous ingredients. HySyn FR® Series are zinc-free ashless fluids and are not water soluble. They can be removed from collector systems by standard skimming techniques.

Physical Properties

PRODUCTS	HYSYN® FR-46	HYSYN® FR-68
Color	Yellow to Amber fluid	Yellow to Amber fluid
Kinematic viscosity		
@ 40°C, cSt	46	68
@100°C, cSt	10	14
Viscosity index	212	215
Density @ 15°C, g/cm ³	0.90	0.91
TAN, mg KOH/g	2.0	1.5
Pour point, °F (°C)	-4 (-20)	-4 (-20)
Foam test, ml	50-0	50-0
Corrosion protection	Pass	Pass
Flash point, °F (°C)	575 (302)	575 (302)
Fire point, °F (°C)	680 (360)	680 (360)
Auto ignition, °F (°C)	842 (450)	842 (450)
Fire resistance - Factory Mutual	Pass	Pass
Pump test ASTM D2882	< 5 mg wear	<5mg wear
FZG Gear Test	12+	12+
Demulsibility	41-39-0 (15) ml-ml (min.)	42-38-0 (30) ml-ml (min.)

Shelf Life: Product shelf life is 3 years from the date of manufacture, after which the product should be recertified prior to use.