

February 15, 2008

P.O. Box 131359 • Tyler, CR 2120, Texas 75713, Phone 903.534.8021 • Fax 903.581.4376

# 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. Product typical properties in this publication are current as of May 13, 2002.

## SYNTHETIC FIRE RESISTANT HYDRAULIC

### HYSYN FR SERIES

*HySyn FR Series fluids are based on high quality synthetic, organic, esters and carefully selected additives 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** fluids are not water soluble and can be removed from collector systems by standard skimming techniques.*

### Physical Properties

PRODUCTS	HYSYN FR-46	HYSYN FR-68
Appearance	Yellow to Amber fluid	Yellow to Amber fluid
Kinematic viscosity at 40°C	46 mm <sup>2</sup> /s or cSt	68 mm <sup>2</sup> /s or cSt
at 100°C	10 mm <sup>2</sup> /s or cSt	14 mm <sup>2</sup> /s or cSt
Viscosity index	220	215
Density at 15°C	0.90 g/cm <sup>3</sup>	0.91 g/cm <sup>3</sup>
Acid number	2.0 mg KOH/g	1.5 mg KOH/g
Pour point	<-20°C (<-4°F)	<-20°C (<-4°F)
Foam test	50-0 ml	50-0 ml
Corrosion protection	Pass	Pass
Flash point	302°C (575°F)	302°C (575°F)
Fire point	360°C (680°F)	350°C (662°F)
Auto ignition	450°C (842°F)	450°C (842°F)
Fire resistance - Factory Mutual	Pass	Pass
Pump test - ASTM D2882	< 5 mg wear	<5mg wear
Gear lubrication	> 12 FZG load stage	> 12 FZG load stage
Demulsibility	41-39-0 (15) ml-ml-ml (min.)	42-38-0 (30) ml-ml-ml (min.)