



FR Polyfluid **(Synthetic Fire Resistant Hydraulic Fluid)**

FR POLYFLUID is a high-performance anti-wear hydraulic fluid series. This polyol- ester fluid was developed for hydraulic systems operating where hot metal or open flames are present. Its high flash point and fire resistant properties make this an ideal high-performance hydraulic fluid.

FR POLYFLUID is a synthetic anti-wear hydraulic fluid that meets the Factory Mutual tests for spray flammability and is classified as a less flammable fluid, category HF-D.

FR POLYFLUID provides excellent anti-wear protection for high-pressure, high-speed hydraulic pumps equivalent to that of petroleum hydraulic oils.

FR POLYFLUID also provides excellent rust and corrosion prevention properties and has better lubricity than hydraulic fluids containing water.

WARNING. Before converting from a mineral oil to FR POLYFLUID, please check with FINA technical services. Please determine coatings and seal materials used in the hydraulic system.

BENEFITS:

- EXCELLENT WEAR AND CORROSION PROTECTION EQUAL TO PETROLEUM OILS
- PASSES FACTORY MUTUAL SPRAY FLAMMABILITY TESTING

APPLICATIONS:

FR POLYFLUID is recommended for a wide variety of hydraulic systems operating at both high and low pump pressures under extremely hot indoor conditions or cold outdoor conditions.

FR POLYFLUID is utilized in many different industrial markets, which include the aircraft industry, steel production, metal smelting, automotive industry, mining/tunneling and food processing.

Examples include high-pressure metal forming, high-temperature down-hole uses, and smelting furnace door and control systems.



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TYPICAL CHARACTERISTICS

ISO Viscosity Grade	46
Product Code	15380
API Gravity (ASTM D 1298)	24.0
Density, spg 60/60 F (lbs/gal)	0.91 (7.6)
Viscosity (ASTM D-445)	
cSt @ -23°C (-10 F)	1100
cSt @ 0°C (32 F)	242
cSt @ 40°C	44.0
cSt @ 100°C	10.0
cSt @ 150 C (302 F)	4.78
Viscosity Index (ASTM D-2270)	220
Pour Point (ASTM D-97) °F (°C)	-18 (-28)
Flash Point (ASTM D-92) °F (°C)	520 (270)
Acid number, mg KOH/g	2.0
Rust Test (ASTM D-665-A)	Pass
Thermal Conductivity (BTU/Hr-Ft-F)	0.23
Specific Heat (60 F) (BTU/lb-F)	0.71
Operating Range	-10 to 300 F

The above data is subject to usual manufacturing variation.
For more information or available, please call 1-800-442-LUBE.
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