



# PRIME F-R Hydraulic Oil

**PRIME F-R (Fire Resistant) Hydraulic Oil** is a premium water glycol type of fire-resistant fluid designed to provide optimum performance in hydraulic systems.

**PREMIUM F-R Hydraulic Oil** provides:

- Specially formulated to provide excellent service over a wide range of operating conditions.
- Contains no nitrites or nitrosamines and is morpholine-free.
- Contains a sufficient amount of water to “snuff-out” ignition which could occur if a high pressure leak in a hydraulic system allows the fluid to come in contact with a high temperature source.
- In addition to its excellent fire-resistant properties, this fluid contains additives to impart the necessary lubricity, corrosion protection and overall performance demanded by today’s high performance hydraulic systems. The addition of an anti-wear component in the basic formulation provides extended pump life in systems operating under high pressure or overloaded conditions.
- Provides extended pump service life and reduced downtime.
- Provides lower maintenance costs.

## **APPLICATIONS:**

**PRIME F-R Hydraulic Oil** covers most types of hydraulic equipment found in steel mills, die casting and power transmission plants, including Eaton/Vickers, Parker/Dennison, Rexroth and other vane and piston pumps. **PRIME F-R Hydraulic Oil** meets US Steel Requirements No. 171 for water-glycol fire-resistant fluids. This product has also been tested and approved by factory Mutual and meets the requirements of Dennison HF-4.

## TYPICAL PROPERTIES

<b>Material Code</b>	<b>FR40-799985</b>
Specific Gravity: ASTM D 129, at 60/60 ° F	1.059
Viscosity, ASTM 445, cST @ 40 ° C	41
ASTM D2161, SUS at 100 ° F	205
Color	Pink
Density, lb./gal	8.83
Viscosity Index, ASTM D 2270	201
Pour Point, ASTM D 97	-53 ° (-47 °)
pH	9.4
Reserve Alkalinity , ASTM D 1121 (1)	16.0
Four Ball Wear Test, ASTM D 4172, 40 Kg load, Scar Diameter, mm (2)	0.56
Liquid and vapor Phase Corrosion of Steel (3)	Nil
Hydraulic pump test (4)	Pass
Hydraulic Pump test, Vickers 35VQ2	Pass
Foam Inhibitor	Yes

(1) Milliliters of 0.1N hydrochloric acid solution required to neutralized 10 milliliters of fluid to pH of 5.5

(2) Test conditions: 1 hour, 130F, 1800 rpm

(3) Two part test: ASTM polished steel specimens: submerged in liquid and suspended above liquid at 170F for 100 hours.

(4) ASTM D 7403 procedure. Test conditions: 100 hours, 150F, 2000 psi.



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