

ConocoPhillips 100 FR Hydraulic Fluid ISO

Category : Fluid , Lubricant

Material Notes:

Description: Conoco FR Hydraulic Fluid is a fire-resistant, water-in-oil, invert-emulsion fluid for hydraulic systems, such as those found in underground mining equipment in which fire hazard and personnel safety concerns require water content for fire control. It is approved by the Mine, Safety, and Health Administration (MSHA) and the Factory Mutual Research Corporation (FMRC). FR Hydraulic Fluid is premixed and ready to use. It contains 40 vol. % water in oil. The oil provides a continuous outer layer to protect the hydraulic system from rust, corrosion and wear. The water provides excellent fire resistance in case of leakage. Thus, FR Hydraulic Fluid offers an extra margin of safety when compared to conventional petroleum hydraulic oils. FR Hydraulic Fluid is manufactured with high viscosity-index paraffinic base oils that are fortified with antiwear agents, biocides, rust and corrosion inhibitors and special emulsifiers that produce a stable, homogeneous mixture with a milky color. Proper system preparation is necessary if changing from a petroleum hydraulic oil or water-glycol fluid to FR Hydraulic Fluid. Avoid cork seals, as well as butyl seals and packing, because they tend to swell in service. Avoid filters and strainers on the pump inlet side of the system, as well as absorbent filters such as waste-packed or fuller's-earth units. Use paper filters only if the manufacturer can assure that they are compatible with water-containing fluids. To prevent excessive water loss, operate the system under 2000 psi pressure and do not allow temperatures to exceed 150°F (65°C). Most systems will run cooler with FR Hydraulic Fluid than with ordinary petroleum or synthetic fluids. The only special consideration is maintaining the proper water content, since water will be lost through evaporation. The MSHA requires a minimum of 40 vol. % water for adequate fire resistance. A stock solution is available for determining water content in the field. Information provided by ConocoPhillips.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ConocoPhillips-100-FR-Hydraulic-Fluid-ISO.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	
pH	9.4	9.4	
Viscosity Measurement	200	200	Viscosity Index
Saybolt Viscosity at 100°F	477 SUS	477 SUS	
Saybolt Viscosity at 210°F	92 SUS	92 SUS	
Kinematic Viscosity at 40°C (104°F)	103 cSt	103 cSt	
Kinematic Viscosity at 100°C (212°F)	18.5 cSt	18.5 cSt	

Mechanical Properties	Metric	English	Comments
Four Ball Wear	0.550 mm	0.0217 in	

Thermal Properties	Metric	English	Comments
Melting Point	-34.4 °C	-30.0 °F	Freezing point

Thermal Properties	Metric	English	Comments
Descriptive Properties			
ASTM Rust Test A & B		Pass	
Color		Milky White	
Slush point		-2°F	
Vickers 104°C Pump Test		250	Vane weight loss, mg.

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