

ConocoPhillips 46 FC Fluid-D ISO

Category : Fluid , Lubricant

Material Notes:

Description: Conoco FC Fluid-D is a premixed, ready-to-use fluid for hydraulic systems, such as those found in underground-mining equipment that operate where fire-hazard and other personnel safety concerns require water content for fire control. It is typically used in hydraulic systems that operate at pressures as high as 2,000 psi, including die-casting services, steel mills, underground mining and power transmissions. It is approved by the Factory Mutual Research Corporation (FMRC) as a Group I hydraulic fluid and meets U.S. Steel Requirement #171. It is dyed red for easy leak detection. FC Fluid-D does not contain nitrites and, therefore, cannot form nitrosoamines. To prevent water loss, it should not be used where hydraulic sump temperatures exceed 150°F. To maintain adequate fire resistance, water content should not be allowed to drop below 30 percent by volume. Only distilled, deionized or controlled boiler feedwaters should be used for makeup. Filters, seals, packing, gaskets, pipe-joint compounds, paints and metals must be compatible with glycol/water fluids. Filters 25 micron and smaller have been used successfully in systems using FC Fluid-D. Use Viton, EPDM, silicone, butyl, Buna N or neoprene seals; avoid cork and leather. Compatible metals include copper, brass, iron (cast) and steel. Aluminum is not compatible. Glycol/water fluids should not be used in systems that include solder, tin, lead, magnesium, zinc, galvanized piping or cadmium, since the fluids will corrode these metals. Glycol/water fluids are incompatible with conventional industrial paints; use special paints and coatings. Has no fire or flash point. Information provided by ConocoPhillips.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ConocoPhillips-46-FC-Fluid-D-ISO.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	
pH	9.0	9.0	at 77°F
Viscosity Measurement	185	185	Viscosity Index
Saybolt Viscosity at 100°F	198 SUS	198 SUS	
Kinematic Viscosity at 40°C (104°F)	42 cSt	42 cSt	

Mechanical Properties	Metric	English	Comments
Four Ball Wear	0.540 mm	0.0213 in	40 kg. 1200 rpm, 1- hr at 167°F
	0.660 mm	0.0260 in	40 kg. 1800 rpm, 1- hr at 130°F

Thermal Properties	Metric	English	Comments
Melting Point	-47.2 °C	-53.0 °F	Freezing point
Boiling Point	104 °C	219 °F	

Descriptive Properties	Value	Comments
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<small>ASTM Rust Test A</small> Descriptive Properties	<small>Pass</small> Value	Comments
Color	Red	
Vickers 104°C Pump Test	20	150°F, 2000 psi, 100-Hrs. Vane wear (mg.)
Vickers 104°C Pump Test (modified)	20	2000 psi, 10 gpm, 150°F, 1200 rpm, 100-Hrs. Vane wear (mg.)
Water Content	39 wt. %	

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