

ExxonMobil Mobil Pyrogard D

Category : Fluid , Lubricant

Material Notes:

Mobil Pyrogard D is a high performance water-based hydraulic fluid designed to meet the requirement for economical fire-resistant hydraulic fluids in general industrial applications. It consists of an oil phase surrounding finely divided water droplets uniformly dispersed throughout the mixture. This ensures that only the oil phase, not the water, contacts and lubricates moving parts, thereby minimizing wear. Such inverted emulsions have a higher viscosity than conventional oil-in-water emulsions. The additive system used provides a high level of wear protection and resistance to corrosion and the formation of gums and resins. The fire resistant properties of Mobil Pyrogard D derive from its water content. Even when the fluid is sprayed at a pressure of over 200 bar / 3000 psi from a diesel engine fuel injector into a propane flame, it will not ignite. The emulsions are extremely stable and, during normal storage, will exhibit very little water separation and only a minor amount of oil separation. Mild agitation or normal service usually will return any separated oil to the emulsion. The emulsion has a white appearance, which highlights points of leakage so that they can be repaired promptly to minimize fluid loss. Its versatility and excellent performance record make Mobil Pyrogard D a fluid of choice among users. When filling Mobil Pyrogard D into a system that has previously used petroleum fluid or water/glycol type fluid, it is essential to clean the system thoroughly before introducing the new product. While Mobil Pyrogard D is compatible with both Viton and Buna N (nitrile) rubbers, it should not be used with butyl rubber, leather, natural rubber, cork composition materials or fabric-reinforced packing. Operation at temperatures between 4°C and 55°C will ensure good performance. Because of the possibility of water evaporation from the products, bulk fluid temperatures above 65°C are not recommended. The water content is important and must be maintained at a minimum of 38% to retain optimum fire resistance properties. As water evaporates, the viscosity of the fluid decreases. Increasing the water content thickens the emulsion and increases its viscosity. This peculiar characteristic of water-in-oil emulsions makes it doubly important to maintain the proper water content to ensure the correct viscosity and wear protection as well as fire resistance. Under normal operating conditions, water evaporation is very slow and water addition to restore fire resistance will only be necessary at extended intervals. Mobil Pyrogard D is recommended for use in hydraulic systems using suitable gear, vane or piston pumps in applications with close proximity to sources of ignition. Equipment manufacturers instructions should be observed. It finds particular application in steel mills, mines and die-casting and other industrial applications. Specific applications include: Hydraulic shears, automatic welders, core machines, presses, trim presses and injection molding machines; Continuous miners, conveyors and rock breakers; Die-casting machines, hoists

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http://www.lookpolymers.com/polymer_ExxonMobil-Mobil-Pyrogard-D.php

Physical Properties	Metric	English	Comments
API Gravity	21.5 °	21.5 °	ASTM D287
Kinematic Viscosity at 40°C (104°F)	119 cSt	119 cSt	ASTM D445

Thermal Properties	Metric	English	Comments
Pour Point	-30.0 °C	-22.0 °F	ASTM D97

Descriptive Properties	Value	Comments
Color		

Descriptive Properties	white Value	Comments
Emulsion Stability, ASTM D3707, vol%	1/4	16 hrs @ 93°C, Water/Oil Separation
Water plus Glycol Content, ASTM D95, wt-%	44	

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