

ExxonMobil Mobil Pyrogard 53

Category : Fluid , Lubricant

Material Notes:

Mobil Pyrogard 53 is a high performance phosphate ester synthetic fluid designed to replace petroleum-based oils in hydraulic applications where operating conditions preclude the use of combustible petroleum products. Mobil Pyrogard 53 is approved by Factory Mutual (FM) as a fire-resistant fluid. Mobil Pyrogard 53 has excellent resistance to oxidation at temperatures normally encountered in hydraulic systems and gives long service life without the formation of deleterious sludges and other materials. It resists foaming and separates readily from water. It offers good antiwear protection for high pressure, high output hydraulic pumps and is very resistant to shear so that it retains its viscosity throughout its service life. The product provides good long-term rust protection, provided there is proper control to avoid excessive water contamination. Mobil Pyrogard 53 has a specific gravity greater than that of water. Any water in the system will float to the top of the reservoir where it can easily be removed. The high specific gravity also affects the flow characteristics of the fluid and must be taken into account in the design and maintenance of the system. The successful experience over the years in a wide variety of hydraulic applications where fire resistance is a key concern has made Mobil Pyrogard 53 the product of choice for many users. Application considerations: Seal and accumulator bladder materials must be compatible with Mobil Pyrogard 53. Butyl rubber, silicon, Teflon, Viton or equivalent materials are satisfactory. Neoprene and Buna N seals, normally used with petroleum fluids, will swell excessively and will deteriorate. Generally, only seals on moving parts and accumulator bladders need be changed. Seals and gaskets on stationary parts will swell and seal more tightly, so they need not be changed until the next scheduled overhaul of the system. In common with other synthetic fire-resistant fluids of this type, Mobil Pyrogard 53 will soften and loosen paint unless it has been specially selected for compatibility with these fluids. When changing from petroleum oil to a phosphate ester fluid, completely remove the paint from the reservoir and leave the reservoir unpainted. If this is not possible, clean suction screens frequently to prevent pump cavitation or starvation. Water-glycol and emulsion-type fluids are not compatible with Mobil Pyrogard 53. Systems must be thoroughly drained and flushed before installing a new charge of Mobil Pyrogard 53. Mobil Pyrogard 53 is recommended for hydraulic applications where fire resistant type fluids are required. While there may be various possible sources of ignition in many industrial facilities, plants where metals are smelted or hot-worked are perhaps most at risk. Such plants frequently have a history of damage to and leakage from hydraulic system hoses and other components. For safety reasons, Mobil Pyrogard 53 is recommended in these situations. Specific applications include: Aluminium die casting machines; Tilting systems of cast iron induction melting furnaces; Various steel industry applications where fire hazard is a key concern

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Mobil-Pyrogard-53.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.155 g/cc	1.155 g/cc	15.6°C
Kinematic Viscosity at 40°C (104°F)	41.8 cSt	41.8 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	5.1 cSt	5.1 cSt	ASTM D445

Thermal Properties	Metric	English	Comments
Pour Point	0.000 °C	32.0 °F	ASTM D97
Flammability Test	538	538	Auto Ignition [°C]

Thermal Properties

Metric

English

Comments

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