Mobil

Mobil Pyrogard[™] 53

Mobil Industrial , Turkey

High Performance Phosphate Ester Synthetic Fluid

Product Description

Mobil PyrogardTM 53 is a high performance phosphate ester synthetic fluid designed to replace petroleum-based oils in hydraulic applications where operating con 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 forma deleterious sludges and other materials. It resists foaming and separates readily from water. It offers good antiwear protection for high pressure, high output hypumps 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 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 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 desig 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 proc choice for many users.

Features and Benefits

Mobil Pyrogard 53 is an important member of the Pyrogard brand of fire-resistant hydraulic fluids that have provided outstanding service, worldwide, in the demanding of applications. Mobil Pyrogard 53 was developed in conjunction with hydraulic equipment builders to meet the needs of applications where fire-resi properties are critical, but where the lubrication performance and long service life expected from mineral base products would be maintained.

Mobil Pyrogard 53 is engineered to provide a high level of fire resistance, and is approved as such by the Factory Mutual group. The product is formulated to p excellent lubrication properties, including resistance to oxidation, sludge formation and foaming, along with long-term corrosion protection and good water separa

Mobil Pyrogard 53 offers the following benefits:

Features	Advantages and Potential Benefits
Excellent fire resistance	Increased safety in fire-sensitive applications
Outstanding antiwear properties	Long life of pumps, motors and valves with reduced parts replacement costs
Excellent oxidation stability and sludge resistance	Extended fluid life and long filter life
Long term rust protection in service	Problem-free hydraulic system operation, reduced downtime
Highly resistant to viscosity shear breakdown	Retains viscosity over life of fluid to give smooth, efficient and reliable operation
Good antifoam and water separation properties	Avoids excessive water contamination and erratic operation due to foamy oil; lower operational costs

Applications

Application considerations: Seal and accumulator bladder materials must be compatible with Mobil Pyrogard 53. Butyl rubber, silicon, Teflon, Viton or equ materials are generally satisfactory. In all cases, operating conditions and the variability of elastomer properties from different manufactures should be considere best results, consult the equipment supplier or seal manufacturer for specific recommendations.

Many paints, coatings and some plastics are not suitable for use with Mobil Pyrogard 53. The manufacture of the coatings used should be consulted prior to use. changing from petroleum oil to a phosphate ester fluid it is recommended to completely remove the paint from the reservoir and leave the reservoir unpainted. If not possible, clean suction screens frequently to prevent pump cavitation or starvation.

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Water-glycol and emulsion-type fluids are not compatible with Mobil Pyrogard 53. Systems must be thoroughly drained and flushed before installing a new cha 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 ir 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 hydraulic system hoses and other components. For safety reasons, Mobil Pyrogard 53 is recommended in these situations. Specific applications include:

- Aluminum dye casting machines.
- Tilting systems of cast iron induction melting furnaces.
- · Various steel industry applications where fire hazard is a key concern.

Properties and Specifications

Property	
Autoignition Temperature, °C, ASTM E659	538
Flash Point, °C, ASTM D92	246
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5.1
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	41.8
Pour Point, °C, ASTM D97	0
Specific Gravity, 60 F/60 F, ASTM D4052	1.155

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.as

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All primary not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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