

### Product Description

Mobil Pyrogard 53 is a high quality straight phosphate ester synthetic fluid developed primarily for use in hydraulic systems where the danger of fire exists. It has been evaluated in stringent tests for fire resistance. It will burn if the bulk fluid reaches 300°C and is exposed to an open flame but a spray or jet from a leak, impinging onto molten or hot metal, would have to reach 620°C before a fire would occur.

Mobil Pyrogard 53 is not subject to oxidation at temperatures normally encountered in hydraulic systems and gives long service life without formation of deleterious sludges and other materials.

The viscosity of Mobil Pyrogard 53 remains constant in use and does not decrease with the shearing action imposed upon it by pumps and other items in the system. It also has excellent anti-wear properties which makes it especially suitable as a hydraulic fluid in critical systems.

### Benefits

Mobil Pyrogard 53 offers the following benefits:

- Excellent resistance to fire hazards
- Long pump, motor and valve life from excellent anti-wear properties
- Good rust protection in service
- Long fluid life due to high oxidation resistance
- Viscosity in use remains constant due to high level of shear stability
- Separates readily from water and resists emulsion formation

### Application

Mobil Pyrogard 53 is recommended for use in hydraulic systems operating in conditions subject to fire hazards. To minimise thermal degradation the maximum bulk temperature should not exceed 150°C. The normal operating temperature should be about 50°C. It is not suitable for use in hydraulic systems subjected to low temperatures.

Mobil Pyrogard 53 is particularly suitable for use in conditions which are prone to water contamination and being heavier than water, separates readily from it. It has a marked resistance to the formation of emulsions. Since water will float on top of the fluid it is a simple matter to remove it in systems subject to constant water contamination.

Mobil Pyrogard 53 does not attack materials such as butyl rubber silicone seal materials. However, it does cause packing materials such as Neoprene and nitrile rubber to swell and deteriorate.

In common with other fire resistance fluids of this type, Mobil Pyrogard 53 has a solvent action on most paints, enamels and varnishes. Therefore, it is necessary to strip paint from all surfaces likely to come into contact with it otherwise filters, valves and other mechanisms are likely to be damaged by paint flakings and paint induced deposits.

Mobil Pyrogard 53 is not compatible with petroleum oils, conventional soluble oil emulsions, water in oil emulsions and water glycol fluids. When used to replace an existing fluid of another type the whole system must be completely cleaned out or deposits are likely to be formed.

## Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

## Typical Characteristics

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### Mobil Pyrogard 53

|                          |         |
|--------------------------|---------|
| ISO Viscosity Grade      | 46      |
| Viscosity, cSt at 40°C   | 41.4/46 |
| Viscosity, cSt at 100°C  | 5.3     |
| Pour Point, °C max.      | -18     |
| Flash Point, °C min. COC | 254     |
| Colour ASTM              | 1.5     |

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Due to continual product research and development, the information contained herein is subject to change without notice.

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