Mobil

Nyvac™ FR 200D

Mobil Industrial , Taiwan

High Performance Fire-resistant Hydraulic Fluid

Product Description

Mobil Nyvac FR 200D is an extra high performance water-glycol type fire-resistant hydraulic fluid. It is formulated with diethylene glycol as the main glycol component. The product does not contain ethylene glycol. Mobil Nyvac FR 200D provides excellent protection against rust and against vapour phase corrosion. In hydraulic pump tests, it has shown a high level of antiwear performance. A high viscosity index makes Mobil Nyvac FR 200D effective over a wide range of operating temperatures. Its foam resistance, low temperature flow and storage stability are also excellent.

The fire-resistant properties of Mobil Nyvac FR200D arise from its water content. Even when the fluid is sprayed at a pressure of over 200 bar / 3000 psi from a diesel injector nozzle into a gas flame it will not ignite, nor will it when dropped onto molten metal. The water content is important and must be maintained at 38% to retain optimum fire resistant properties and its viscosity characteristics. Viscosity increase due to loss of water by evaporation can be easily corrected by adding deionised water to the product. It is not recommended for use in systems operating at bulk fluid temperatures above 65° C. Mobil Nyvac FR 200D is compatible with packings, gaskets, hoses and accumulators made from materials normally encountered in hydraulic systems, except items made from polyurethane, leather or cork materials. Mobil Nyvac FR 200D is approved by FM Global.

Mobil Nyvac FR 200D's wide application capability and excellent performance make it the product of choice among many industrial users.

Features and Benefits

Mobil Nyvac FR 200D is a key member of the Mobil brand of fire-resistant hydraulic fluids. Mobil Nyvac FR 200D was developed in conjunction with hydraulic equipment builders to meet the needs of moderate pressure applications where fire-resistance properties are critical, and where good lubricity and product life are also required.

Features	Advantages and Potential Benefits
Outstanding fire-resistant properties	Safer working conditions for people and plant
Excellent lubricity and antiwear properties	Minimum pump and valve wear when used in accordance with the equipment manufacturer's recommendations
High viscosity index	Wide range of applications for reduced inventory costs
Very good low temperature fluidity	Good cold-start performance
Very good lubricity and antiwear performance	Pump and valve protection and long life and reduced replacement part costs
Excellent storage stability	Easy handling in the plant and reduced waste

Applications

In common with all other water-glycol type fluids, Mobil Nyvac FR 200D is not compatible with typical type paints. Epoxy or phenolic resin based paints are suitable. Mobil Nyvac FR 200D should not be mixed with other types of fluids. While it is compatible with other water-glycol type products, admixtures may detract from the properties of the Mobil product. The water content is important and must be maintained at 38% to retain optimum fire resistant properties and its viscosity characteristics. It is not recommended for use in systems operating at bulk fluid temperatures above 65° C.

Mobil Nyvac FR 200D is recommended for use in all types of hydraulic pumps and motors operating close to a source of ignition, providing the manufacturers instructions are observed. Typical applications include:

- Diecasting machines and presses
- Combustion regulators
- Furnace door openers
- Ladel-tilting mechanisms
- Glass drawing machinery

Specifications and Approvals

This product has the following approvals:
FM Global Approvals Class 6930

Properties and Specifications

Property	
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	41.5
pH, AM-S 1436	9.5
Pour Point, °F, ASTM D97	-30
Specific Gravity, 15.6 C/15.6 C, ASTM D1298	1.089
Viscosity Index, ASTM D2270	175
Water, wt %, ASTM E203	43
Color, Visual	Red

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.aspx

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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 products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com
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