

# Mobil Nyvac FR 200D

## 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 Factory Mutual (FM) as a Group I HF-C fluid. 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

<b>Mobil Nyvac has the following builder approval:</b>	<b>FR 200D</b>
Factory Mutual Group I HF-C Fluid	X

## Typical Properties

<b>Mobil Nyvac FR 200D</b>	
Viscosity, ASTM D 445	
cSt @ 40° C	41.5
Viscosity Index, ASTM D 2270	175
Specific Gravity, ASTM D 1298, 15.6° C/15.6° C	1.089
Pour Point, °C, ASTM D 97	-30
Water Content, ASTM D 1744	43
PH	9.5
Colour, visual	Red

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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