

MOL Pirohyd C

water/glycol fire-resistant hydraulic fluid



MOL Pirohyd C is a fire resistant hydraulic fluid (HFC type), developed for a wide range of hydraulic systems, composed of ethylene glycol, water and additives that ensure efficient inhibition of wear and corrosion. It is very important to monitor the water content continuously during operation, because a suitable viscosity and protection of the equipment can only be ensured in this way.

The concentration of the product may vary as shown below (if a manual refractometer Falko-2 is used):

- Fresh product: 43 %
- +5% water (inflow, dilution): 41 %
- +10% water (inflow, dilution): 39 %
- 5% water (evaporation, thickening): 45 %
- 10% water (evaporation, thickening): 47 %

If a different type of measuring device is available, it has to be calibrated to the given product before measuring the concentration. The maximum operating temperature of the fluid must be kept below 60 °C in order to minimize evaporation and to avoid damage to the product! It is compatible with sealing materials generally used in hydraulic systems. Please seek help from our expert if the fluid is to be filled for substituting mineral oil or HFDU type product.

Application



High pressure hydraulic systems subject to increased fire hazard

Features and benefits

Free of petroleum	Excellent fire resistance and low toxicity
Excellent shear stability	Forms a tenacious lubricating film even under exposure to heavy stress
Excellent wear protection	Reliable operation, even in equipment exposed to heavy loads at high pressures Contributes to increasing equipment lifetime
Excellent corrosion protection	Extreme long term protection of steel and non-ferrous metal parts
Low foaming tendency	Reduced risk of cavitation Stable, continuous lubricating film, giving reduced wear
Rapid air release	Reduced risk of cavitation Reliable operation, giving longer equipment lifetime

Specifications and approvals

Viscosity grade: ISO VG 46
ISO 12922 HFC
ISO-L-HFC
7th Luxemburg Report
VDMA 24317 HFC

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Properties

Properties	Typical values
Density at 15°C [g/cm ³]	1,086
Kinematic viscosity at 40°C [mm ² /s]	46,8
Pour point [°C]	-42
Alkali reserve (HFC fluids) [ml 0,5MHC]	12,7
Water content (KF) [mass %]	36
Emulsion pH value	9,6
Foaming properties at 50°C	
- foaming tendency at 25°C [cm ³]	20
- foam stability at 25°C [cm ³]	0
- foaming tendency at 50 °C [cm ³]	10
- foam stability at 50 °C [cm ³]	0
- foaming tendency at 25°C (after 50°C) [cm ³]	20
- foam stability at 25°C (after 50°C) [cm ³]	0
Four-ball test	
- scar diameter (1 h, 40 kg) [mm]	0,60

The characteristics in table are typical values of the product and do not constitute a specification.

Storage and handling instructions

Should be stored in its original packaging with airproof sealing, separately from foods, in a place protected against water and sunshine, locked away from children.

In the original container under the recommended storage conditions: 24 months

Recommended storage temperature: -30°C - +40°C

Ordering information

Custom Tariff Number 38190000

SAP code and packaging:

13300086 MOL Pirohyd C 200KG

216.5 l steel drum (for order only)

Order booking:

Please contact your local distributor or sales partner for ordering details.