

# MOL Pirohyd DU 46

## synthetic fire-resistant hydraulic oil



MOL Pirohyd DU 46 is a fully synthetic, ester based fire resistant hydraulic fluid (HFDU type), which is free from mineral oil, developed for a wide range of hydraulic systems. Its stable chemical composition provides suitable protection of equipment operating in a wide range of temperatures (-20 °C and +120 °C ), even under high loads. Due to its carefully selected composition, it has an excellent wear reducing performance, similar to those of gear oils (FZG 12, DIN 51354-Part 2). This product is not toxic, and it has a rapid bio-degradation property. To ensure a long service life, it is necessary to check for the presence of water regularly and to remove water as necessary. It is compatible with sealing materials generally used in hydraulic systems /such as nitrile butadiene rubber NBR (nitrile>30%), Polychloroprene CR (temperature<100°C), Viton FPM, Polyurethane AU, Teflon ® PTFE/. Please seek help from our expert if the fluid is to be filled for substituting mineral oil, HFC type or high water- based fluid.

### Application



- High pressure hydraulic systems subject to increased fire hazard
- Equipment operating in a wide range of temperatures
- Hydraulic systems operating at high pressures and under heavy operating conditions
- Circulation systems

### Features and benefits

High flash point and auto-ignition temperature	Higher operational safety with significantly less fire hazard compared to mineral oil products
Outstanding wear protection	Reliable operation, even in equipment exposed to heavy loads at high pressures Anti-wear performance close to that of gear oils (FZG 12) Long equipment lifetime
High viscosity index	Low hydraulic loss Optimum lubrication and reliable operation in a wide range of environmental and operational temperatures
Excellent shear stability	Forms a tenacious lubricating film even under exposure to heavy stress
Good thermal and oxidation stability	No deposit or sludge formation Reliable operation, so reduced operational costs
Excellent corrosion protection	Extreme long term protection of steel and non-ferrous metal parts
Rapid air release together with low foaming	Stable balanced lubricating film between friction surfaces, giving long equipment lifetimes Reduced risk of cavitation
High-level biodegradability	Lower environmental impact

### Specifications and approvals

Viscosity grade: ISO VG 46  
ISO 12922 HFDU  
ISO-L-HFDU  
7th Luxemburg Report

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### Properties

Properties	Typical values
Density at 15°C [g/cm <sup>3</sup> ]	0,920
Kinematic viscosity at 40°C [mm <sup>2</sup> /s]	48,5
Kinematic viscosity at 100 °C [mm <sup>2</sup> /s]	9,42
Viscosity index	185
Pour point [°C]	-36
Flash point (Cleveland) [°C]	310

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

### Storage and handling instructions

Store in the original container in dry, properly ventilated area. Keep away from direct flame and other sources of ignition. Protect from direct sunlight.

During transport, storage and use of the product follow the work safety instructions and environmental regulations relating to mineral oil products.

For further details please read the Material Safety Data Sheet of the product.

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

Recommended storage temperature: max. 40°C

### Ordering information

Custom Tariff Number 38190000

#### SAP code and packaging:

13006480 MOL Pirohyd DU 46 180KG

216.5 l steel drum (for order only)

#### Order booking:

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