

Mabanol Helium Hyd HFD-U 46

Fire-resistant synthetic hydraulic fluid (biodegradable)

Application

Mabanol Helium Hyd HFD-U 46 is a fully synthetic, flame retardant high-performance hydraulic oil offering excellent biodegradability according to OECD 301 B of more than 80%. Their area of application covers critical fields, particularly in hydraulic systems in the steel and aluminium industry where users might encounter potential fire hazard due to the presence of high-temperature materials.

Properties

Mabanol Helium Hyd HFD-U 46 was manufactured on the basis of carefully selected, fully synthetic base oils and a specially tailored additive package. This versatile hydraulic oil protects the pumps against cavitation and thus guarantees high operational reliability.

Mabanol Helium Hyd HFD-U 46 ensures good wear and corrosion protection, good aging resistance, elastomer compatibility and high temperature stability.

Mabanol Helium Hyd HFD-U 46 can be used universally thanks to its high viscosity index and good lubricating properties. The product can be used in hydraulic systems which could potentially be prone to leakage into the environment. It can also be used as an HFDU fluid in hydraulic systems that are running a higher risk of fire hazard due to the presence of high temperature materials.

Mabanol Helium Hyd HFD-U 46 is compatible with conventional elastomers such as NBR (>30% ACN), FPM, AU, PTFE as well as with iron, steel alloys and most non-ferrous metals and alloys. In addition, Mabanol Helium Hyd HFD-U 46 is compatible with multi-component epoxy coatings.

Data

| | Test method | Unit | 46 |
|---------------------------|-------------|--------------------|-------|
| Density at 20°C | ASTM D 4052 | g/cm ³ | 0,9 |
| Kin. Viscosity at 40°C | ASTM D 445 | mm ² /s | 46 |
| Kin. Viscosity at 100°C | ASTM D 445 | mm ² /s | 9,7 |
| Flash point | ASTM D 92 | °C | 330 |
| Auto-ignition temperature | ASTM E659 | °C | > 400 |
| Copper corrosion | ASTM D 130 | | 1A |
| Pourpoint | ASTM D 97 | °C | - 42 |
| Air separation capacity | ASTM D3427 | min. | 7 |
| FZG Test A /8,3/90 | ISO 14653-1 | | > 12 |

Updated in May 2024

The above values may vary within the commercial limits.

Customs Tariff No.: 2710 1983