

# MOL Food Hyd 46

## food-grade hydraulic oil



MOL Food Hyd 46 is a synthetic hydraulic fluid produced from PAO (Polyalphaolefin) base oil and special additives, that can be used in food-grade lubricants. It is a category H1 product registered by NSF: "This product can be used as food-grade lubricant (H1) in the direct and indirect environment of food processing, where there is a possibility of incidental food contact." Compared with conventional mineral oil hydraulic fluids, its range of application temperatures is wider and its oxidation stability is better. It is recommended to wash out the system before the first filling, or to reduce the period of first oil change after filling in order to make sure that the outstanding lubricating ability of the liquid is retained, and that its non-toxic characteristics are ensured. This is particularly important if the system operated previously with a conventional (mineral oil based) lubricant.

### Application



Hydraulic systems in the food industry

Hydraulic systems operating at high pressures and under heavy operating conditions

Mist lubrication systems

### Features and benefits

NSF H1 registered quality

Applicable in each stage of a food supply chain  
No health risk when in contact with foodstuffs below the permitted range

Exceptional thermal and oxidation stability

Protects against deposit formation at high temperatures  
Increased oil drain intervals, so reduced lubricant consumption

High viscosity index

Optimal flow properties in a wide range of temperatures  
Safe application throughout the year

Excellent wear protection

Reduced wear of contacting surfaces, even under varying operating conditions  
Longer equipment lifetime, giving reliable operation

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

Excellent water separation

Water is rapidly separated from the oil and can be drained from the system  
Longer oil change interval and equipment lifetime  
Abnormal corrosion and wear of equipment can be prevented

Miscible with mineral based hydraulic oils

In case of mixing, the oil charge can still be used, but the food-grade quality may be lost  
Reduced risk of failures due to mixing lubricants

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### Specifications and approvals

Viscosity grade: ISO VG 46  
*NSF H1[142129]*  
ISO-L-HM  
ISO-L-HV  
DIN 51517-2 (CL)

### Properties

Properties	Typical values
Density at 15°C [g/cm <sup>3</sup> ]	0,833
Kinematic viscosity at 40°C [mm <sup>2</sup> /s]	45
Kinematic viscosity at 100 °C [mm <sup>2</sup> /s]	7,9
Viscosity index	145
Pour point [°C]	-48
Flash point (Cleveland) [°C]	270

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 lubricants.

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

In the original container under the recommended storage conditions: 48 months

Recommended storage temperature: max. 40°C

### Ordering information

Custom Tariff Number 34039900

#### SAP code and packaging:

13007306 MOL Food Hyd 46 10LA

10 l plastic can (for order only)

13007806 MOL Food Hyd 46 170KG

216.5 l steel drum (for order only)

#### Order booking:

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