

MOL Hydro HME 46

premium hydraulic oil



MOL Hydro HME 46 is a premium quality hydraulic fluid, containing a zinc based additive for reducing wear. It is composed of mineral base oils of carefully selected quality, exhibits excellent performance in a wide range of industrial and mobile hydraulic equipment exposed to heavy loads. It ensures outstanding wear resistance. In the standard vane pump test (Vickers V104C), the wear is 85 % lower than the specified limit. It meets the requirements of the Denison HF-O specification, the highest level of performance for mineral oil based hydraulic fluids. This product has an outstanding thermal and hydrolytic stability. Its TOST lifetime is twice that required in the DIN 51524-Part 2 standard.

Application



Hydraulic systems operating at high pressures and under heavy operating conditions

Industrial equipment operating at low temperatures (pumps, servo systems)

Circulation systems

Hydraulic systems of machine-tools

Hydraulic systems of machines used in the plastics industry

Turbo-, screw and vane compressors

Hydraulic systems of earthmoving and forestry machines

Features and benefits

Excellent wear protection

Reliable operation, even in equipment exposed to heavy loads at high pressures
Improved operational safety and high level of availability

Excellent thermal and hydrolytic stability

Extremely low sludge formation
Increased oil drain interval
Reliable operation, so reduced operational costs

Excellent filterability

No deterioration of filterability, even in the presence of moisture
Calculably low filter usage even with 2-3 micron pore size filter cartridges
Reduced maintenance costs and environmental impact

Rapid air release

Reduced risk of cavitation
Outgoing air does not cause increased foaming
Reliable operation, giving longer equipment lifetime

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Features and benefits (continue)

Excellent corrosion protection	Effective protection of steel and non-ferrous metal parts even in the presence of water
Excellent water separation	Water is rapidly separated from the oil and can be drained from the system The formation of harmful deposits and filter plugging can be avoided Abnormal corrosion and wear of equipment can be prevented Increased operational safety of equipment

Specifications and approvals



Viscosity grade: ISO VG 46
ARBURG
Danieli 0.597666.C
Bosch Rexroth Fluid Rating List RDE 90245
ENGEL
Cincinnati Lamb P-70 (Fives Cincinnati)
Parker Denison HF-0
Parker Denison HF-1/HF-2
ISO 11158 HM
ISO-L-HM
DIN 51524-2 (HLP)
DIN 51506 VDL
Eaton (Vickers) I-286-S
Eaton (Vickers) M-2950-S
General Motors LS2 LH-04-1-00
SAE MS1004 Type HM
AIST (US Steel) 127
AIST (US Steel) 126
AFNOR NF-E-48603 (HM)

Properties

Properties	Typical values
Density at 15°C [g/cm ³]	0,877
Kinematic viscosity at 40°C [mm ² /s]	46,4
Kinematic viscosity at 100 °C [mm ² /s]	6,75
Viscosity index	97
Pour point [°C]	-30
Flash point (Cleveland) [°C]	225

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

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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: 48 months

Recommended storage temperature: max. 40°C

Ordering information

Custom Tariff Number 27101983

SAP code and packaging:

13301310	MOL Hydro HME 46 4L	4 l plastic can
13301889	MOL Hydro HME 46 50KG	60 l steel drum
13301888	MOL Hydro HME 46 180KG	216.5 l steel drum
13100467	MOL Hydro HME 46 860KG	IBC (for order only)
13300668	MOL Hydro HME 46 860KG R1W	IBC (for order only)
13100466	MOL Hydro HME 46	Road tank car (for order only)

Order booking:

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