

# MOL Frigoil 46

## refrigeration compressor oil



MOL Frigoil 46 is a lubricant for industrial refrigerating compressors working with ammonia refrigerants. It is a mixture of highly refined naphthenic mineral oils. Due to the properties of the special base oils it has excellent cold flow characteristics, high chemical stability and high thermal resistance. It can be used in all refrigerating systems, where the operating temperature range is between -40 °C and +130 °C.

### Application



Refrigerating compressors operating with ammonia (R717) refrigerant  
Refrigerating systems that use either reciprocating or screw compressors

### Features and benefits

Excellent lubricity	Effective friction and wear reduction Forms a lubricant film layer with high load-carrying ability, so protects the condition of moving machine elements, facilitating efficient energy consumption
Excellent thermal stability	Resists thermal decomposition and deposit formation in the long term, even at high operating temperatures Long oil lifetime, giving extended oil drain intervals
Compatible with construction materials	There's no damage to the plastic and rubber parts of the cooling system Longer equipment lifetime, so reduced parts costs
Excellent chemical stability	No chemical reaction with refrigerant, so a long oil service life and equipment lifetime can be achieved
Favourable cold flow properties	Reliable operation even at low temperatures

### Specifications and approvals

Viscosity grade: ISO VG 46  
ISO-L-DRA  
DIN 51503-1 KA

### Properties

Properties	Typical values
Density at 15°C [g/cm <sup>3</sup> ]	0,885
Kinematic viscosity at 40°C [mm <sup>2</sup> /s]	44,2
Pour point [°C]	-39
Flash point (Cleveland) [°C]	220
Neutralization number [mg KOH/g]	0,01
Conradson carbon residue [mass %]	<0,01

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 27101981

#### SAP code and packaging:

13005371 MOL Frigoil 46 180KG

216.5 l steel drum

#### Order booking:

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