

MOL Compressol RS 46

synthetic compressor oil



MOL Compressol RS 46 is a high performance synthetic compressor oil developed for the lubrication of screw compressors and vane compressors. It is a polyalphaolefin (PAO) based synthetic oil containing a balanced combination of additives that inhibit oxidation, corrosion, wear and foam formation. It ensures outstanding protection and performance for rotary compressors working with oil injection lubrication and producing high pressures and high temperatures at the end of compression. For a short period of time it withstands final compression temperatures exceeding 100 °C. It enables longer oil service lifetimes to be achieved relative to mineral oil based compressor oils, if appropriate conditions are available (load, ambient temperature, quality of transferred gas).

Application



Stationary and mobile screw and vane compressors with oil-flooded lubrication

Arduous conditions where severe oil degradation and sludge formation are experienced

Single- and multi-stage machines producing high pressures and operating at high compression discharge temperatures

Features and benefits

Excellent lubricity

Forms a lubricant film layer with high load-carrying ability, so protects the condition of moving machine elements, facilitating efficient energy consumption

Outstanding thermal and oxidation stability

Resists the ageing process and deposit formation long term, even at high operating temperature and pressure conditions
Ensures cleanliness of compression chamber elements and bearings, enables extended oil service intervals and reduced maintenance costs

Excellent corrosion protection

Effective protection of steel and non-ferrous metal parts even in the presence of water

Rapid air release

Reduced risk of cavitation
Outgoing air does not cause increased foaming
Continuous lubricating film, free of air bubbles

Low foaming tendency

Stable, continuous lubricating film, giving reduced wear
Less oil carry-over, giving reduced oil consumption and efficient oil separator operation

Excellent water separation

Water is rapidly separated from the oil and can be drained from the system
Less oil separator filter blockage
Longer oil change interval and equipment lifetime

Specifications and approvals

Viscosity grade: ISO VG 46
ISO-L-DAB
ISO-L-DAJ
DIN 51506 VDL
GM LJ-04-3-04
SAE MS1003-2 Type DPJ

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Properties

Properties	Typical values
Density at 15°C [g/cm ³]	0,846
Kinematic viscosity at 40°C [mm ² /s]	45,5
Kinematic viscosity at 100 °C [mm ² /s]	7,8
Viscosity index	140
Pour point [°C]	-39
Flash point (Cleveland) [°C]	225

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: 48 months

Recommended storage temperature: max. 40°C