

MOL Compressol Synt ES 100

synthetic compressor oil



MOL Compressol Synt ES 100 is a new generation air compressor fluid based on polyol ester. It contains specific anti oxidant and corrosion inhibitor.

Application



- Stationary and mobile screw and vane compressors with oil-flooded lubrication
- Single- and multi-stage reciprocating compressors
- 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

Specifications and approvals

- Viscosity grade: ISO VG 100
- ISO-L-DAB
- ISO-L-DAH
- DIN 51506 VDL

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Properties

Properties	Typical values
Density at 15°C [g/cm3]	0,956
Kinematic viscosity at 40 °C [mm ² /s]	100
Kinematic viscosity at 100 °C [mm ² /s]	10,4
Viscosity index	82
Pourpoint [°C]	-24
Flash point (Cleveland) [°C]	270
Neutralization number [mg KOH/g]	0,59
Sulphated ash [mass %]	in traces
Foaming characteristics SI	
- foaming tendency SI [cm ³]	0
- foam stability SI [cm ³]	0
Water separability at 82°C	
- time to separation at 82 °C [min]	25
Rust preventing properties, method "B"	pass
Oxidation stability	
- increase of Conradson carbon residue [mass %]	0,37
- evaporation loss [%]	1,57
Four ball test, scar diameter (75°C, 40kg, 1200rpm, 1h) [mm]	0,52
Copper corrosion (100 °C, 3 h) [grade]	1A

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: 24 months

Recommended storage temperature: max. 40°C