

Klüber Summit RPA 68

Synthetic compressor oil, particularly for highly loaded ammonia refrigeration plants



Your benefits at a glance

- Low maintenance costs due to extended oil change intervals and reduced oil consumption
- Easy compressor oil conversion due to neutral behaviour towards seals
- High efficiency of the refrigerating plant due to reduced oil deposits
- Low operating costs due to long service life of filters and oil separators
- Wide range of application with evaporating temperatures down to -53°C

Your requirements - our solution

Klüber Summit RPA 68 is a refrigeration compressor oil based on synthetic hydrocarbons which are compatible with seals. It complies with the requirements set forth in DIN 51 503-1, KAA (08.97).

Klüber Summit RPA 68 is free from paraffin and offers good cold flow properties. It contains base oils of high chemical stability and shows a low tendency to evaporation. Klüber Summit RPA 68 is neutral to seals, particularly seals which have already been operated with naphthene-base mineral oils.

The product is fully miscible with mineral oils.

Application

Klüber Summit RPA 68 has been designed especially for the lubrication of highly loaded screw-type and reciprocating piston compressors which are operated with ammonia (R717) as refrigerant.

Klüber Summit RPA 68 is particularly suitable for compressors that were previously run with mineral oils. Unlike polyalphaolefins, Klüber Summit RPA 68 is neutral towards most neoprene seals used in refrigerating plants, therefore leakage is not to be expected.

Due to the synthetic base oil of Klüber Summit RPA 68, oil carryover into the refrigeration cycle is much lower than with conventional mineral oils, which helps to reduce oil consumption.

The viscosity of the oils remains consistent for a long time, due to the fact that only a few highly volatile fractions are contained in the oil. Oil changes due to the increase in viscosity can be extended considerably.

The base oil offers high chemical stability, particularly to ammonia, the typical blackening of conventional mineral oils or deposits in the refrigeration cycle are prevented and oil change intervals can be extended.

Our experience gained in practice has shown that Klüber Summit RPA 68 can be used for evaporating temperatures as low as -53°C (where mineral oils no longer flow) depending on the operating conditions. Klüber Summit RPA 68 protects against wax-like deposits, thus increasing the efficiency of the refrigeration plant.

Application notes

Drain old oil from whole circuit of the refrigeration compressor while still warm. We recommend changing all oil filters and separators and draining the oil catches of the refrigeration cycle completely. Then recharge compressor with Klüber Summit RPA 68.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüber Summit RPA 68
Canister 20 l	+
Drum 200 l	+
Drum 208 l	+

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Characteristics	Klüber Summit RPA 68
Article number	050063
Appearance	clear
Colour space	colourless
Density, DIN 51757, 20°C	approx. 0.83 g/cm ³
Flash point, DIN EN ISO 2592, Cleveland open cup	≥ 230 °C
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 8.5 mm ² /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 60 mm ² /s
Viscosity index, DIN ISO 2909	≥ 100
Pour point, DIN ISO 3016	≤ -48 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

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