Klüber Summit RHT 68

Paraffin-based mineral oil, particularly for ammonia refrigerating plants

Benefits for your application

- **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**
- **Low oil carryover and consumption compared to naphthene-based mineral oils**

Description

Klüber Summit RHT 68 is a refrigeration compressor oil based on paraffinic mineral oil.

Klüber Summit RHT 68 complies with the requirements set forth in DIN 51 503-1, KAA (08.97).

Application

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

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

As the base oil of Klüber Summit RHT 68 is highly refined, 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 avoided.

The hydrogenated 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 considerably.

Our experience gained in practice has shown that Klüber Summit RHT 68 can be used for evaporating temperatures as low as -39 °C depending on the operating conditions.

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 RHT 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.

Note

The pour point acc. to DIN ISO 3016 is -39 °C for batch numbers from 150763 up. For batch numbers below 150763 the pour point is <= -30 °C.

Pack sizes	Klüber Summit RHT 68
Canister 19 l	+
Drum 208 l	+

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Product data	Klüber Summit RHT 68
Article number	050057
NSF-H2 registration	144 398
Appearance	clear
Colour space	colourless
Density, DIN 51757, 20 °C	approx. 0.86 g/cm³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 68 mm²/s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 8.8 mm²/s
Viscosity index, DIN ISO 2909	>= 90
ISO viscosity grade, DIN ISO 3448	68
Pour point, DIN ISO 3016	<= -39 °C
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 240 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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 80 years.

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