

KLÜBER SUMMIT RHT 68 (PAIL: 20LTR)

Product group: **683** Product number: **210200**

Klüber Summit RHT 68 is a paraffin-based mineral oil engineered for ammonia refrigeration compressors, delivering reliable performance and extended service life under demanding conditions.



Product information

Klüber Summit RHT 68 is chemically miscible with mineral oils, alkylbenzenes, and PAO-based refrigerator oils. They may therefore be used to top up such oil fills. The full performance capacity of Klüber Summit RHT 68 and Klüber Summit RHT 100 will only come to bear with a complete change of the oil and filters. Klüber Summit RHT 68 is neutral towards most chloroprene and neoprene seals typically used in refrigeration equipment. Klüber Summit RHT oils are less soluble than naphthene-based mineral oils, which reduces the influence on the swelling behaviour of the seals to a minimum. In some rare cases, a changeover from naphthene-based refrigerator oils to a Klüber Summit RHT oil may lead to leakages as the oil change may cause seals to shrink to their original size. In our experience, such leakages are very small and reversible, depending on the runtime and the maintenance condition of the refrigerator.

Features

- Chemically miscible with mineral oils, alkylbenzenes, and PAO-based refrigerator oils
- Neutral towards most chloroprene and neoprene seals used in refrigeration systems
- Lower solubility than naphthene-based mineral oils, minimizing seal swelling
- Potential for minor, reversible leakage during oil change due to seal shrinkage
- Proven performance in refrigeration systems with varying runtime and maintenance conditions

Benefits

- Excellent flow characteristics at low temperatures
- Lower maintenance costs due to long oil change intervals and reduced oil consumption
- Low solubility in ammonia
- Easier changeover due to neutral behaviour towards seals
- High refrigeration efficiency due to reduced oil deposits
- Lower operating costs due to long filter and oil separator lifetimes
- Lower oil carryover than with naphthene-based mineral oils

Specification

General

Invent Hazard Material (IMO/EU) classification	C-3
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Physical properties

Appearance	clear
Colour	colourless
Density at 20°C [g/cm³]	~0.86 g/cm³
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C [mm²/s]	~8.8 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C [mm²/s]	~68 mm²/s

Dimensions/Weight

Packing Size	20 LTR
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Technical data

Shelf life [months]	36
Viscosity index, DIN ISO 2909	≥ 90

Performance data

Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus [°C]	≥ 240 °C
Pour point, DIN ISO 3016 [°C]	≤ -39 °C

Documents

[SDoC](#)

Directions for use

Drain old oil from the whole circuit of the refrigeration compressor while still warm. We recommend replacing all oil filters and oil separators and completely drain oil traps of the refrigeration circuit. Then refill the compressor with Klüber Summit RHT 68 .

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