Wilhelmsen Ships Service

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KLUBER SUMMIT R 200 (DRUM: 200 LTR)

Product group: **683** Product number: **210215**

Klüber Summit R 200 is a fully synthetic refrigeration compressor oil designed for ammonia and CO_2 systems, offering excellent thermal and chemical stability across a wide temperature range.



Product information

Klüber Summit R oils are fully synthetic high-performance lubricants especially developed for heavily loaded ammonia refrigerators and heat pumps. The Klüber Summit R series is characterised especially by its high chemical and thermal stability attained with the carefully selected base oils on the basis of polyalphaolefins. Depending on the system design, Klüber Summit R products might also be successfully used with carbon dioxide (R744). The Klüber Summit R series has a high viscosity index, good shear stability and excellent low-temperature flow behaviour, giving the products large reserve capacity compared with the mineral oils available on the market. Furthermore, the Klüber Summit R series is characterised by low solubility in R717 and R 744. This enables higher film thickness in the lubrication point, contributing to reliable, low-wear compressor operation. The Klüber Summit R series can be used at high operating temperatures and in refrigerators with very low evaporator temperatures.

Features

- Developed for heavily loaded ammonia refrigerators and heat pumps.
- Higher refrigerator efficiency due to lower oil content in the refrigerant and very good flow characteristics at low temperatures
- Klüber Summit R products might also be successfully used with carbon dioxide (R744)

Benefits

- Excellent thermal and chemical stability
- Low product solubility in ammonia
- Separation of the oil/ NH3 mixture in the separator is very good
- Lower operating costs due to long oil filter and oil separator lifetimes

Specification

General

Suggested Inventory Hazard Material classification	C-3

Physical properties

Appearance	clear
Colour	coulourless
Density at 20°C [g/cm³]	~ 0.83 g/cm³
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C [mm²/s]	~ 10 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	200 LTR

Technical data

Shelf life [months]	36
Viscosity index, DIN ISO 2909	≥ 130

Performance data

Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus [°C]	≥ 230 °C
Pour point, DIN ISO 3016 [°C]	≤ -51 °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 an oil of the Klüber Summit R series.

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