

Klübersynth UH1 4-18

Synthetic heat carrier and lubricating oil for the food processing and pharmaceutical industries



Your benefits at a glance

- Supports process reliability by use of an NSF H1/HT1 registered lubricant
- Wide service temperature range through premium, synthetic hydrocarbon oil with superior low-temperature properties
- · Supports the reduction of operating costs resulting from excellent stability for long life
- ISO 21469 certified supports the compliance with the hygienic requirements in your production plant. You will find further information on ISO Standard 21469 on our website www.klueber.com

Your requirements - our solution

Klübersynth UH1 4-18 is fully synthetic, heat carrier oil for the food processing, pharmaceutical and cosmetics industries. This special oil has good heat transfer properties and it has excellent low-temperature properties.

Klübersynth UH1 4-18 is NSF H1 registered and therefore complies with FDA 21 CFR § 178.3570. The lubricant was developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of Klübersynth UH1 4-18 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Klübersynth UH1 4-18 should only be used as heat carrier oil for closed systems in the food processing, pharmaceutical and cosmetics industries. Cast housings and rotating unions are known

to have minute leaks when exposed to high temperatures. Thus, these applications require an NSF HT1 lubricant for technically unavoidable contact with the food.

Application notes

Klübersynth UH1 4-18 is to be used exclusively as heat carrier oil in closed systems. At higher temperatures moderate inert gas pressure increases the oil's service life.

Material conventionally used in heating and cooling systems, i.e. steel, spheroidal graphite iron and stainless steel, do not affect Klübersynth UH1 4-18.

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	Klübersynth UH1 4-18
Canister 1 I	+
Canister 20 I	+
Drum 200 I	+

Characteristics	Klübersynth UH1 4-18
Article number	096048
Composition, type of oil	synthetic hydrocarbon oil
Appearance	clear



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Characteristics	Klübersynth UH1 4-18
Colour space	red
Service temperature, lower limit	-50 °C
Service temperature, upper limit	280 °C
NSF H1, HT1 registration number	136010
Density, DIN 51757, 20°C	approx. 0.82 g/cm ³
Flash point, DIN EN ISO 2592, Cleveland open cup	≥ 200 °C
Kinematic viscosity, 200°C, calculated data	approx. 1.2 mm ² /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 4 mm ² /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 20°C	approx. 40 mm ² /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 18 mm ² /s
Viscosity index, DIN ISO 2909	≥ 120
Pour point, DIN ISO 3016	≤ -50 °C
Carbon residue Conradson, DIN 51551-1	≤ 0.01 % by weight
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	ed 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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