

Klübersynth UH1 4-18

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



Benefits for your application

- 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

Description

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 20 l	+
Drum 200 l	+

Product data	Klübersynth UH1 4- 18
Article number	096048
NSF-H1, HT1 registration	136 010
Chemical composition, type of oil	synthetic hydrocarbon oil
Lower service temperature	-50 °C / -58 °F
Upper service temperature	280 °C / 536 °F
Appearance	clear
Colour space	red
Density, DIN 51757, 20 °C	approx. 0.82 g/cm ³



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Product data	Klübersynth UH1 4- 18
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 20 °C	approx. 40 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 18 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 4 mm ² /s
Kinematic viscosity, calculated data at 200 °C	approx. 1.2 mm ² /s
Viscosity index, DIN ISO 2909	>= 120
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 200 °C
Carbon residue acc. to Conradson, DIN 51551 pt. 01	<= 0.01 % by weight
Pour point, DIN ISO 3016	<= -50 °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 80 years.

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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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