

Klüberoil 4 UH1-15

Low viscosity lubricating oil for the food and pharmaceutical industries



Benefits for your application

- NSF H1 registered supporting process reliability
- Good penetrative properties facilitating both quick disassembly of component parts and reduced down-time
- Corrosion protection properties to maximise component life

Description

Klüberoil 4 UH 1-15 is a lubricating oil based on synthetic hydrocarbons for the food-processing and pharmaceutical industries.

This synthetic lubricating oil is suitable for low temperatures and protects against corrosion.

Klüberoil 4 UH 1-15 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 Klüberoil 4 UH 1-15 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Klüberoil 4 UH 1-15 is used in the food-processing and pharmaceutical industries for all friction points where incidental contact with the food product cannot be excluded. Klüberoil 4 UH 1-15 can be used as barrier medium in mechanical seals. It is also suitable for the lubrication of spindles, joints and chains subject to low loads, also at low temperatures. Klüberoil 4 UH1-15 Spray protects special steel components.

Klüberoil 4 UH 1-15 has also proven effective as H1 lubricating oil in pneumatic maintenance units.

Application notes

Klüberoil 4 UH 1-15 is miscible with mineral oil and synthetic hydrocarbons, however we recommend not mixing it with conventional lubricants in order to retain its NSF H1 status.

For the Klüberoil 4 UH1-15 Spray:

Do not spray in enclosed space for example electrical cabinets.

Ensure sufficient ventilation as explosive mixtures may form. After spraying, wait until solvent has evaporated.

Do not spray near naked flame, incandescent or hot objects. Observe additional application notes in the material safety data sheet and in the can label.

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	Klüberoil 4 UH1-15	Klüberoil 4 UH1-15Spray
Aerosol can 400 ml	-	+
Canister 20 l	+	-
Drum 200 l	+	-

Note

Except for the article number and the minimum shelf life, the spray data below refer to the solvent-free spray agent.



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Product data	Klüberoil 4 UH1-15	Klüberoil 4 UH1-15Spray
Article number	029029	081240
NSF-H1 registration	136 436	134 124
Colour space	yellow	yellow
Chemical composition, type of oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil
Chemical composition, type of oil	ester oil	ester oil
Lower service temperature	-45 °C / -49 °F	-45 °C / -49 °F
Upper service temperature	110 °C / 230 °F	110 °C / 230 °F
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 15 mm ² /s	approx. 15 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 3.5 mm ² /s	approx. 3.5 mm ² /s
ISO viscosity grade, DIN ISO 3448	15	15
Viscosity index, DIN ISO 2909	>= 120	>= 120
Copper corrosion, DIN EN ISO 2160, 24 h/100°C	1 - 100 corrosion degree	1 - 100 corrosion degree
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	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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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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