

Klüberfood NH1 CH 2 Plus oil series

High-temperature chain oils for the food-processing industry



Benefits for your application

- **Reduced oil consumption due to lower evaporation losses compared to other ester oils commonly used in high-temperature chain applications in the food-processing industry**
- **Extended chain life through enhanced wear protection, leading to lower life cycle costs**
- **NSF-H1 registration for increased process reliability**
- **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

The Klüberfood NH1 CH 2 Plus oil series comprises synthetic high-temperature chain oils incorporating special base oils ensuring reliable lubrication at high temperatures. Owing to special additives, these oils offer extremely good wear protection. They show low evaporation losses and high oxidation stability for optimised relubrication intervals and reduced oil quantities.

Products of the Klüberfood NH1 CH 2 Plus oil series are NSF H1-registered and therefore comply with FDA 21 CFR § 178.3570. The lubricants were developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of the Klüberfood NH1 CH 2 Plus oil series can contribute to increased reliability of your production equipment and processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

The Klüberfood NH1 CH 2 Plus oil series has been designed for lubrication of all drive, control and transport chains subject to high temperatures and loads. They are particularly suitable for use in chain applications, in beverage can decorating, bakery ovens, as well as other high-temperature chain applications in the food industry. These oils are suitable for chain designs both with and without elastomer O-rings for slow, medium and high-speed chain applications such as those found in the beverage can manufacturing industry.

Application notes

Klüberfood NH1 CH 2 Plus oils can be applied by means of brush, gravity oil feed or automatic lubrication systems.

When applied via automatic lubrication systems, please observe the maximum viscosity specified by the equipment manufacturer.

In view of the many different paint systems and testing criteria, paint compatibility tests should be performed by the user prior to series application.

In case of contact with elastomers and plastics their resistance to products of the Klüberfood NH1 CH 2 Plus oil series should be checked. The colour of the product may change during storage with no performance reduction.

Please contact our technical sales staff for further information and support when required.

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	Klüberfood NH1 CH 2-75 Plus	Klüberfood NH1 CH 2-220 Plus	Klüberfood NH1 CH 2-260 Plus
Canister 5 l	+	+	+
Canister 20 l	+	+	+
Drum 200 l	+	+	+



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Product data	Klüberfood NH1 CH 2-75 Plus	Klüberfood NH1 CH 2-220 Plus	Klüberfood NH1 CH 2-260 Plus
Article number	002162	002163	002164
NSF-H1 registration	146 429	146 427	146 428
Chemical composition, type of oil	ester oil	ester oil	ester oil
Lower service temperature	-20 °C / -4 °F	-20 °C / -4 °F	-15 °C / 5 °F
Upper service temperature	250 °C / 482 °F	250 °C / 482 °F	250 °C / 482 °F
Colour space	yellow	yellow	yellow
Density, DIN 51757, 20 °C	approx. 0.99 g/cm ³	approx. 0.94 g/cm ³	approx. 0.97 g/cm ³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 75 mm ² /s	approx. 220 mm ² /s	approx. 260 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 11 mm ² /s	approx. 21 mm ² /s	approx. 21 mm ² /s
Viscosity index, DIN ISO 2909	>= 120	>= 105	>= 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months	24 months	24 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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