

# Klüberfood NH1 6-180, NH1 6-10

Synthetic lubricating oil for the food and pharmaceutical industries



## Your benefits at a glance

- A contributor to reduced wear and component costs resulting from good penetrative and corrosion protection properties
- Potential reduction in contamination levels with a greater resistance to sugar build up
- Supporting productivity when used in the deep drawing of aluminium bottle caps due to good separating properties
- NSF H1 registered supporting 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](http://www.klueber.com)

## Your requirements - our solution

Klüberfood NH1 6-180 / NH1 6-10 is a ready to use, stable aqueous solution of special synthetic fluid with lubricating and sliding properties for applications in the food processing industry, especially in the confectionery industry.

Klüberfood NH1 6-180 / NH1 6-10 is NSF H1 registered and therefore complies with FDA 21 CFR § 178.3570. The oil was developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of Klüberfood NH1 6-180 / NH1 6-10 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

## Application

Especially suitable for lubrication points in an environment affected by sugar, e.g. rocking levers, chain joints, tracing pins, spindles, lifting devices, tongs and running surfaces in tablet compressing machines, packing machines, tin foiling machines and wrapping machines.

Also suitable as a deep drawing lubricant complying with food regulations for the forming of aluminium bottle caps for the beverage and pharmaceutical industries.

## Application notes

Klüberfood NH1 6-180 is a concentrate which is easily miscible with water without any technical efforts – stirring is enough. When using the product as a sugar dissolving oil we recommend a mixing ratio of 1:1.

Depending on the application, mixing ratios with a higher content of water are possible. Klüberfood NH1 6-10 is a ready-to-use product. The product can be applied to the lubrication point by brush, metering can, etc.

When using the products as a deep drawing lubricant, the end user is responsible for finding the required ratio of mixture with water. We generally recommend a ratio of 1:5 when using the concentrate together with water.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberfood NH1 6-10	Klüberfood NH1 6-180
Canister 1 l		+
Canister 10 l	+	+

# Klüberfood NH1 6-180, NH1 6-10

Synthetic lubricating oil for the food and pharmaceutical industries



Characteristics	Klüberfood NH1 6-10	Klüberfood NH1 6-180
Article number	086008	086009
Appearance	slightly turbid	slightly turbid
Colour space	yellow	yellow
NSF H1 registration number	138556	138575
Density, DIN 51757, 20°C	approx. 1.06 g/cm <sup>3</sup>	approx. 1.10 g/cm <sup>3</sup>
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 12 mm <sup>2</sup> /s	approx. 170 mm <sup>2</sup> /s
Klüber Corrosion test, Klüber method: PN 007, equipment: steel (Ck 22), 25°C, no corrosion after	48 h	48 h
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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 90 years.

Klüber Lubrication München GmbH & Co. KG /  
Geisenhausenerstraße 7 / 81379 München / Germany /  
phone +49 89 7876-0 / fax +49 89 7876-333.

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.

Publisher and Copyright: Klüber Lubrication München GmbH & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München GmbH & Co. KG and if source is indicated and voucher copy is forwarded.