

# Klüberfood NH1 CH 6-120 SUPREME

High-temperature chain oil for the food-processing and pharmaceutical industries



## Your benefits at a glance

- Improved process reliability for food processing as the product contains H1-registered white solid lubricants instead of black graphite
- Longer relubrication periods because of the impregnation effect of the white solid lubricant
- Increased chain lifetime, due to excellent anti-wear behaviour, even at extreme temperatures
- Modern synthetic oil offering good corrosion protection
- ISO 21469 certified - supports 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

As a food producer or machine OEM, you are striving to improve food safety of your products, without compromising performance, especially when facing demanding applications.

Klüberfood NH1 CH 6-120 SUPREME fulfills your requirements. It is used to lubricate chains in industrial ovens operating at temperatures up to 650 °C. The special carrier fluid conveys white solid lubricants to the friction point of the chain. The carrier fluid then evaporates without leaving organic residues. Therefore it helps to improve food safety in your plant. As Klüberfood NH1 CH 6-120 SUPREME does not contain graphite, contamination with black particles is avoided.

Klüberfood NH1 CH 6-120 SUPREME 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 the Klüberfood NH1 CH 6-120 SUPREME oil can contribute to increased reliability of your production equipment and processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Klüberfood NH1 CH 6-120 SUPREME offers good wetting properties and excellent penetration with high dispersion stability.

## Application

This product can be used for the lubrication of transport chains of industrial ovens in the food processing industry operating at very high temperatures, e.g. plate carrier chains in baking ovens commonly found in bread, tortilla and pizza production lines.

## Application notes

Klüberfood NH1 CH 6-120 SUPREME can be applied by brush or centralised lubricating devices.

Before applying the product, shake the container well to ensure an even distribution of the solid lubricant particles. In centralised lubricating devices we recommend to have a propeller stirrer in the lubricant reservoir, which stirs the lubricant until homogeneous prior to each lubrication task.

Relubrication with Klüberfood NH1 CH 6-120 SUPREME is performed on the cooled chain at temperatures below 150 °C in order to avoid excessive smoke generation. Relubrication is done in absence of the foodstuff. Upon sufficient evaporation of the oil having attained the operating temperature, production can be continued. Please ensure adequate suction to remove smoke.

In order to obtain the maximum performance, penetration of the product in the friction points of the chains must be ensured. Relubrication intervals up to 2 weeks have been experienced. If, for technical-design reasons (i.e. low tolerances), the product does not penetrate properly, we recommend to contact the machine OEM and/or the chain manufacturer for support. 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](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

### Pack sizes

Canister 5 l

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Product data	Klüberfood NH1 CH 6-120 SUPREME
Article number	029093
NSF-H1 registration	153 014
Chemical composition, solid lubricant	solid lubricant
Chemical composition, type of oil	PAG
Lower service temperature	-40 °C / -40 °F
Upper service temperature	650 °C / 1202 °F
Colour space	white
Texture	liquid
Density, DIN 51757, 20 °C	approx. 1.04 g/cm <sup>3</sup>
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 120 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 20 mm <sup>2</sup> /s
Anticorrosion properties on steel, DIN ISO 7120, method B, 24h/60 °C	no corrosion
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	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.

**Klüber Lubrication München SE & 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.

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