

# Klüberfood NH1 64-422

Synthetic special lubricating grease for the food and pharma processing industries



## Benefits for your application

- Good wear protection and component life resulting from high base oil viscosity
- Good sealing protection of bearing to prevent ingress of moisture and enhancing 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).

## Description

Klüberfood NH1 64-422 is a special lubricating grease composed of a synthetic base oil and silicate thickener. This special NSF H1 registered grease has been designed for the lubrication of rolling bearings under the varying operating conditions of the food-processing industry.

Klüberfood NH1 64-422 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 Klüberfood NH1 64-422 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

## Application

Klüberfood NH1 64-422 is used for the lubrication of rolling bearings of machines and installations e.g. in the manufacture of grain, meal and animal feeds. It is intended for applications where there may be technically unavoidable contact with the food product.

The use of Klüberfood NH1 64-422, an NSF H1-registered lubricant, can contribute to a safe product regime when used in accordance with food manufacturing regulations.

## Application notes

Klüberfood NH1 64-422 is applied by standard commercial grease application equipment. e.g. spatula or grease gun.

Before applying Klüberfood NH1 64-422, all lubrication points should be thoroughly cleaned to ensure maximum hygiene conditions exist, mandatory for foodsafe H1 lubrication.

If the production process does not allow cleaning we recommend the existing grease be replaced by purging the system during relubrication.

Please do not hesitate to contact your local Klüber representative in respect of grease miscibility, relubrication procedures etc.

## 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 64-422
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+

Product data	Klüberfood NH1 64-422
Article number	096076
NSF-H1 registration	129 522
Lower service temperature	-30 °C / -22 °F
Upper service temperature	140 °C / 284 °F



# Klüberfood NH1 64-422

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Product data	Klüberfood NH1 64-422
Colour space	beige
Texture	homogeneous
Density at 20 °C	approx. 1.00 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 420 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 45 mm <sup>2</sup> /s
NLGI grade, DIN 51818	2
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	6 000 mPas
Shear viscosity at 25°C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer, upper limit value	12 000 mPas
Oil separation, DIN 51817 N, after 7 d/40 °C	<= 3 % by weight
Flow pressure of lubricating greases, DIN 51805-2, test temperature: -30 °C	<= 1 400 mbar
Speed factor (n x dm)	approx. 300 000 mm/min
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	0 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	18 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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