

# Klüberfood NH1 34-401

Synthetic lubricating grease for the food-processing and pharmaceutical industries



## Your benefits at a glance

- **Considerable cost savings through**
  - lower lubricant consumption, even when exposed to high loads
  - attractive price-performance ratio
  - reduction of number of lubricants due to wide range of possible applications
- **Longer component life due to good load-carrying capacity and good resistance to wear**
- **Low breakaway torque even after longer periods of standstill ("Monday-morning effect")**
- **Easy and convenient application via centralised lubrication systems**

## Your requirements - our solution

As a manufacturer or operator of feed pellet presses, you are likely to prefer a versatile lubricating grease which can be applied to various friction points, facilitating your work processes in initial and relubrication and also preventing mix-up.

Klüberfood NH1 34-401 is a synthetic grease based on a special calcium complex thickener. It is NSF H1-registered and therefore complies with FDA 21 CFR § 178.3570.

The use of Klüberfood NH1 34-401 can contribute to increased reliability of your production equipment and processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Klüberfood NH1 34-401 offers very good adhesion and resistance to water, besides a very low friction torque, which contributes to smooth operation of the bearings, even during start-up. All these effects help reduce your maintenance expenses.

## Application

Klüberfood NH1 34-401 is used for a variety of friction points such as guides, open gears, rolling/plain bearings subject to high loads, low to medium speeds and operating in the presence of moisture and steam. The product provides high machine operation reliability and contributes to reducing the number of lubricants.

Further application examples are:

- Rolling bearings in animal feed pellet presses, hammer mills and slaughterhouses
- Open gears subject to water
- Pneumatic control and sealing elements

## Application notes

Klüberfood NH1 34-401 can be applied by standard grease application equipment, e.g. spatula, grease gun, or through centralised systems. Before applying Klüberfood NH1 34-401, all lubrication points should be thoroughly cleaned to ensure maximum hygiene conditions exist, mandatory for food-safe 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 our Sales Engineers to discuss 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 34-401
Can 1 kg	+
Bucket 25 kg	+



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Product data	Klüberfood NH1 34-401
Article number	017182
NSF-H1 registration	149 161
Lower service temperature	-40 °C / -40 °F
Upper service temperature	140 °C / 284 °F
Colour space	beige
Density at 20 °C	approx. 0.90 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 400 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 40 mm <sup>2</sup> /s
NLGI grade, DIN 51818	1
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	<= 2 - 100 corrosion degree
Oil separation, DIN 51817 N, after 7 d/40 °C	<= 3.5 % by weight
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	2 000 mPas
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, upper limit value	8 000 mPas
Drop point, DIN ISO 2176	>= 200 °C
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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