

Klüberlub NH1 11-231

Lubricating grease for the food and pharmaceutical industries



Your benefits at a glance

- Versatile lubricant reducing the number of different lubricants required on site
- High resistance to media provides good sealing and reduces the risk of ingress of contaminants
- NSF H1-registered supporting process reliability
- ISO 21469 certified – supports the compliance with the hygienic requirements in your production. You will find further information about ISO Standard 21469 on our website www.klueber.com.

Your requirements - our solution

Klüberlub NH1 11-231 is based on a paraffin mineral oil and an aluminium complex soap.

Klüberlub NH1 11-231 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 Klüberlub NH1 11-231 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Klüberlub NH1 11-231 is generally suitable for all lubrication points in the food-processing industry where there might be an incidental, technically unavoidable contact with the food product. We recommend, however, to apply Klüberlub NH1 11-231 to all friction points to avoid contamination. Typical applications of Klüberlub NH1 11-231 are: rolling and plain bearings in machines of the food and pharmaceutical industries, metering pistons, guide rods and tubular tracks in e.g. slaughterhouses.

Application notes

The lubricant is applied by spatula, brush, grease gun or cartridge, or via a centralised lubrication system.

Before applying Klüberlub NH1 11-231, 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 re-lubrication.

Please do not hesitate to contact us in respect of grease miscibility, re-lubrication procedures etc.

This product is also available in our automatic lubricant dispenser Klübermatic. Please consult the application engineering experts from Klüber Lubrication to determine whether Klübermatic might be used under the conditions in your processes.

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	Klüberlub NH1 11-231
Cartridge 370 g	+
Cartridge 370 g	+
Bucket 25 kg	+

Klüberlub NH1 11-231

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Characteristics	Klüberlub NH1 11-231
Article number	096089
Colour space	beige
Texture	fibrous
Service temperature, lower limit	-25 °C
Service temperature, upper limit	100 °C
NSF H1 registration number	137535
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	300 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	320 0.1 mm
Flow pressure, DIN 51805-2, -25°C	< 1400 mbar
Water resistance, DIN 51807-1, based on standard, 3 h, 50°C	1 - 50 rating
Water resistance, DIN 51807-1, 3 h, 90°C	1 - 90 rating
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 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.

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