Klüberfood NH1 94-402

Synthetic special lubricating grease for the food processing and pharmaceutical industries

Your benefits at a glance

- Increased component availability and extended maintenance intervals
  - owing to its good load-carrying capacity
  - due to good corrosion protection
- Reduces friction and wear, e.g. in rolling bearings, owing to its good wear protection properties and good flow characteristics.
- ISO 21469 certified- supports the compliance with hygienic requirements in your production plant. You will find further information on ISO standard 21469 on our website www.klueber.com

Your requirements - our solution

Klüberfood NH1 94-402 is a special lubricating grease composed of a highly refined base oil and a calcium complex thickener.

The use of Klüberfood NH1 94-402, an NSF H1-registered lubricant, can contribute to a safe product regime when used in accordance with food manufacturing regulations.

Klüberfood NH1 94-402 is NSF H1 registered and therefore comply 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 94-402 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Klüberfood NH1 94-402 is used for the lubrication of rolling bearings of machines and installations used in the food-processing industry, e.g. in the manufacture of grain, meal and pellet animal feeds.

MOSH-MOAH Hint

The chromatographic measurement of MOSH can also detect saturated hydrocarbons of form other sources than mineral oil so it may be possible for chromatographic MOSH peaks to be detected in some Klüber Lubrication H1 products.

Application notes

Klüberfood NH1 94-402 is applied by standard commercial grease application equipment, e.g. spatula, grease gun.

Before applying Klüberfood NH1 94-402, 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 our Technical Consulting and Sales Departments 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	Klüberfood NH1 94-402
Cartridge 400 g	+
Cartrigde 400 g	+
Can 1 kg	+

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Pack sizes	Klüberfood NH1 94-402
Bucket 25 kg	+
Bucket 50 kg	+
Drum 180 kg	+

Characteristics	Klüberfood NH1 94-402
Article number	096097
Mineral Oils associated with MOSH (Mineral Oil Saturated Hydrocarbons) / MOAH (Mineral Oil Aromatic Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	Intentionally added
Colour space	beige
Texture	homogeneous
Service temperature, lower limit	-30 °C
Service temperature, upper limit	160 °C
NSF H1 registration number	139051
Density, Klüber method: PN 024, 20°C	approx. 0.97 g/cm³
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	280 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	310 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 40 mm²/s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 400 mm²/s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Oil separation, ASTM D6184, 30 h, 100°C	≤ 4 % by weight
Flow pressure, DIN 51805-2, -30°C	approx. 1400 mbar
Dropping point, DIN ISO 2176 / IP 396	≥ 250 °C
Four-ball tester, welding load, DIN 51350-4	approx. 3000 N
Speed factor (n x dm)	approx. 300000 mm/min
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

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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 95 years.

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