

Klüberfood NH1 94-6000

Synthetic fluid gear grease for the food processing and pharmaceutical industries



Benefits for your application

- Optimised lubricant supply to the friction point due to very soft consistency and good pumpability in central lubrication systems
- Reduced wear and extended maintenance intervals due to good load-carrying capacity and good corrosion protection
- Good low-temperature characteristics enable use in refrigerated environments
- NSF-H1 registration for increased process 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

Description

Klüberfood NH1 94-6000 is a fluid grease based on a highly refined synthetic hydrocarbon and a special calcium complex soap thickener.

Klüberfood NH1 94-6000 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 94-6000 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Due to its special composition, Klüberfood NH1 94-6000 offers an unusual combination of performance characteristics. The special thickener provides very good wear protection even at the very soft consistency of NLGI 000. At the same time, Klüberfood NH1 94-6000 offers excellent corrosion protection along with good water resistance. This combination of special synthetic base materials enables optimum lubricant supply to the friction point also at low temperatures.

Application

Klüberfood NH1 94-6000 was especially developed for applications in machines and installations of the food-processing and pharmaceutical industries where incidental contact with your product cannot be excluded. Klüberfood NH1

94-6000 is used e.g. as a fluid gear grease for the immersion lubrication of toothed and worm gears or chains that run more smoothly with a soft grease.

Application notes

Klüberfood NH1 94-6000 is applied by brush, spatula, grease gun, grease cartridge or via central lubrication systems. Before applying Klüberfood NH1 94-6000, all lubrication points should be thoroughly cleaned to ensure maximum hygiene conditions for H1 lubrication.

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

Overlubrication should generally be avoided. Please do not hesitate to contact us for KlüberServiceSystem support regarding lubricant quantities, relubrication procedures or grease miscibility.

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 94-6000
Can 1 kg	+
Bucket 25 kg	+

Klüberfood NH1 94-6000

Synthetic fluid gear grease for the food processing and pharmaceutical industries

Product data	Klüberfood NH1 94-6000
Article number	096115
NSF-H1 registration	143 372
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	calcium complex soap
Lower service temperature	-45 °C / -49 °F
Upper service temperature	120 °C / 248 °F
Colour space	brown
Texture	homogeneous
Texture	short-fibred
Density at 20 °C	approx. 0.88 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	435 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	475 x 0.1 mm
NLGI grade, DIN 51818	000
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment:rotational viscometer	<= 2 000 mPas
Base oil viscosity at 40 °C, calculated value	approx. 60 mm ² /s
Base oil viscosity at 100 °C, calculated value	approx. 10 mm ² /s
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
FZG scuffing test, based on DIN ISO 14635, A/2,76/50, scuffing load stage	>= 12
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.	12 months





Klüberfood NH1 94-6000

Synthetic fluid gear grease for the food processing and pharmaceutical industries



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.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.