Klübersynth UH1 14-31

Synthetic smooth-running grease for the food-processing and pharmaceutical industries

Benefits for your application

- **Reliable operation also at low temperatures due to soft consistency and low base oil viscosity**
- **Reduced risk of premature component failure due to good adhesion and anticorrosive behaviour**
- **Lubricant starvation prevented by very good pumpability in centralised lubricating systems**
- **NSF-H1 registration for higher process reliability**

Description

Klübersynth UH1 14-31 was especially developed for the food-processing and pharmaceutical industries. This lubricant is NSF H1-registered and therefore complies with FDA 21 CFR § 178.3570.

The use of Klübersynth UH1 14-31, an NSF H1-registered lubricant, is a contributor towards the supporting of food safety. This needs to be considered not in isolation but in line with other appropriate actions which have by law to be fulfilled by a food manufacturing plant to allow for food to be manufactured safely.

Klübersynth UH1 14-31 excels by its low-temperature and anti-wear properties as well as good water resistance and effective wear- and corrosion protection.

Application

Klübersynth UH1 14-31 is used on machines and equipment in the food-processing and pharmaceutical industries, preferably at lubrication points where technically unavoidable contact with the food product cannot be excluded. However, we recommend supplying all lubrication points in the area with Klübersynth UH1 14-31 so as to avoid problems of lubricant contamination.

Klübersynth UH1 14-31 should preferably be used when extremely smooth running and a wide speed range are required.

It is intended for plain- and rolling bearings, lifting cylinders, joints, seals, etc. as well as for the lubrication of friction points in freeze and deep-freeze tunnels or for chains which run more smoothly when lubricated with a soft grease.

Application notes

Klübersynth UH1 14-31 can be applied by brush, spatula, grease gun or automatic lubricating systems.

Service temperatures of Klübersynth UH1 14-31 range from -45 °C to 120 °C. For certain applications, lower temperatures are also possible. The lubricating film retains its functionality down to approx. -70 °C.

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	Klübersynth UH1 14-31
Can 1 kg	+
Bucket 25 kg	+

Product data	Klübersynth UH1 14-31
Article number	096029
NLGI grade, DIN 51818	1
NSF-H1 registration	056356
Lower service temperature	-45 °C / -49 °F

a brand of FREUDENBERG

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Product data	Klübersynth UH1 14-31
Upper service temperature	120 °C / 248 °F
Texture	short-fibred
Colour space	white
Texture	homogeneous
Density at 20 °C	approx. 0.90 g/cm³
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. 30 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 6 mm²/s
Speed factor (n x dm)	approx. 700 000 mm/min
Drop point, DIN ISO 2176, IP 396	>= 220 °C
Functional lubricant film	>= -70°C °C
Flow pressure of lubricating greases, DIN 51805, test temperature:-45 °C	<= 1 400 mbar
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.

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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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