

Klübersynth UH1 14-31

Lubricating grease for the food processing industry



Description

Klübersynth UH1 14-31 was developed especially for the food processing industry. It meets the requirements of the German Foodstuffs and Consumer Goods Act (LMBG, sec. 5, subsec. 1, sentence 1). It is also registered under NSF-H1 because all the substances it contains satisfy the elevated purity specifications of the "Guidelines of sec. 21 CFR 178.3570 of FDA regulations".

Registration under NSF-H1 permits the use of the grease in all situations of occasional technically unavoidable contact between grease and foodstuff.

Klübersynth UH1 14-31 excels by its low-temperature and anti-wear properties as well as good water resistance and effective wear protection. It should preferably be used when extremely smooth running and a wide speed range are required. Klübersynth UH1 14-31 also offers good protection against corrosion and high stability to ageing and oxidation.

Applications

Klübersynth UH1 14-31 is used for the lubrication of machines and equipment in the food processing industry. It is intended for sliding 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 using a brush, spatula or grease gun and can be delivered easily by central lubrication systems.

Klübersynth UH1 14-31 service temperatures* range between -40 °C and 120 °C. Even lower temperatures may be supported application-specifically. The lubricating film retains its functionality down to approx. -70 °C.

This lubricant is certified as H1, which means that it has been designed and registered for incidental, technically unavoidable food contact.

Specific test results referring to pharmaceutical applications are not available for this product (e.g. biocompatibility). Therefore, before using the lubricant adequate risk analyses have to be performed and, if necessary, suitable measures be taken by the manufacturer and user of pharmaceutical installations in order to exclude the risk of health hazards and personal injuries.

Minimum shelf life

Minimum shelf life is approx. 24 months if the product is stored carefully in its unopened original packing in a dry room.

Pack sizes

1 kg tin
25 kg hobbock

- Excellent low-temperature characteristics
- Good water resistance
- Good corrosion protection
- High stability to ageing and oxidation
- Easy delivery in central lubrication systems
- NSF-H1 registration

Material safety data sheets

Material safety data sheets can be downloaded or requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber.

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Product data

Colour, appearance	white
Density, at 20 °C, [g/cm ³], approx.	0.9
Drop point, DIN ISO 2176, [°C]	> 220
Cone penetration of lubricating greases, DIN ISO 2137, worked penetration at 25 °C, [0.1 mm], approx.	310 to 340
Speed characteristic** (n x d _m), [mm/min], approx.	8 10 ⁵
Consistency grade, DIN 51818, NLGI	1
Service temperature range*, [°C], approx.	-45 to 120

* Service temperatures are approximations that can vary with lubricant composition, intended use, and application method. Depending on the kind of mechanico-dynamic load, the consistency, apparent viscosity or viscosity of lubricants will vary with temperature, pressure, and time. These changes in product characteristics may affect the function of a component..

** Speed characteristics are approximations that depend on the type and size of rolling bearings and local operating conditions. They need to be confirmed by tests carried out by the user in each individual case.

This product information data sheet is based on our general experience and knowledge by the time it went to press and is intended to inform technically experienced readers about possible applications. It is no warranty of product properties or suitability in the individual case. Nor does it release the user from performing preliminary tests with the selected product. We recommend contacting our technical consultants for a discussion of your specific needs. If requested and possible we shall gladly provide samples for testing. Klüber products are continually improved. Klüber Lubrication, therefore, reserves the right to change any and all technical information contained in this publication at any time and without prior notice.



Klüber Lubrication, a member of the Freudenberg group