

Klübersynth UH1 14-1600

Synthetic lubricating grease for the food and pharmaceutical processing industry

Benefits for your application

- Improved pumpability due to its soft consistency
 - Component life enhanced resulting from a special thickener with good adhesion and good corrosion protection
 - 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.
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Description

Klübersynth UH1 14-1600 is a synthetic high-performance lubricating grease.

It is registered as NSF H1 and complies with FDA 21 CFR Sec. 178.3570.

Klübersynth UH1 14-1600, an NSF H1-registered lubricant, is a contributor towards the supporting of food safety. The use of this lubricant 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.

Its soft consistency, good wear protection and scuffing load stage 11 in the FZG test ensure good lubricant distribution and reduced wear in the gear.

Application

Klübersynth UH1 14-1600 has been especially designed for applications in machines and installations used in the food processing and pharmaceutical industries where contact with the food product is technically unavoidable.

It is intended for use as a fluid gear grease for the immersion lubrication of toothed gears, worm gears and chains operating more smoothly with a softer grease.

Application notes

Klübersynth UH1 14-1600 can be applied by brush, spatula, grease gun, or grease cartridge.

It can also be dispensed through centralised lubrication systems*.

Before substituting Klübersynth UH1 14-1600 for other greases, thoroughly clean all lubrication/friction points. If the greases are miscible, relubrication is sufficient. In gears, however, used grease should be removed as far as possible.

Minimum shelf life

The minimum shelf life is approx. 12 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

1 kg cans
25 kg bucket

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.

* The product can normally be applied by means of centralised lubricating systems. Please note, however, that due to different system configurations and application conditions the pumpability of the product has to be confirmed with the system manufacturer for each individual application. We will be pleased to provide assistance in this matter.



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Synthetic lubricating grease for the food and pharmaceutical processing industry

Product data	Klübersynth UH1 14-1600
Article number	096038
Chemical composition, oil type	synthetic hydrocarbon oil
Chemical composition, thickener	aluminium complex soap
Service temperature range*, [°C]	-45 to 120
Colour	light-yellow
Texture	homogeneous, fibrous
Worked penetration at 25 °C, DIN ISO 2137; [0.1 mm]	400 to 430
Consistency, NLGI grade**, DIN 51 818	00
Density, DIN 51 757 at 20°C, [g/cm ³]	0.85
Drop point, DIN ISO 2176, [°C]	>220
NSF-H1 registration***, registration No.	136695

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** A special feature of this product is the very fast increase of worked penetration. It quickly becomes very soft (approx. 6 months) thus falling beyond the indicated worked penetration range and the NLGI classification.

*** This lubricant is registered as H1, which means that it has been designed for incidental, technically unavoidable food contact. Experience shows that it can be used for equivalent applications in the cosmetic and pharmaceutical industry under the conditions described in the product information leaflet. Specific test results as e.g. biocompatibility, which could be an additional requirement for applications in the pharmaceutical industry, are not available for this product. Therefore, before using the lubricant adequate risk analyses should be performed and, if necessary, suitable measures be taken by the manufacturer and user of installations in order to exclude the risk of health hazards and personal injuries.

Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

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The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



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