

# Klübersynth UH1 14-1600

Synthetic lubricating grease for the food and pharmaceutical processing industry



## Your benefits at a glance

- 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](http://www.klueber.com).

## Your requirements - our solution

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 is applied by brush, spatula, grease gun or via central 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.

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.

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.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klübersynth UH1 14-1600
Cartridge 370 g	+
Can 1 kg	+
Bucket 25 kg	+
Drum 170 kg	+

# Klübersynth UH1 14-1600

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Characteristics	Klübersynth UH1 14-1600
Article number	096038
Composition, thickener	aluminium complex soap
Composition, type of oil	synthetic hydrocarbon oil
Colour space	yellow
Texture	fibrous , homogeneous
Service temperature, lower limit	-45 °C
Service temperature, upper limit	120 °C
NSF H1 registration number	136695
Density, Klüber method: PN 024, 20°C	approx. 0.85 g/cm <sup>3</sup>
NLGI grade, DIN 51818	0/00
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	370 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	430 0.1 mm
Dropping point, DIN ISO 2176 / IP 396	≥ 200 °C
FZG scuffing test, DIN ISO 14635-3, based on standard, A / 2.8 / 50, failure load stage	11
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	12 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 90 years.

Klüber Lubrication München GmbH & 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.

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