

# Klübersynth UH1 14-222

Synthetic lubricating grease for universal application in the food-processing and pharmaceutical industries



## Benefits for your application

- Facilitates product streamlining owing to its wide range of applications
- Offers improved surface protection through good adhesion and its particular consistency
- 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)

## Description

Klübersynth UH1 14-222 was developed for the special requirements of the food-processing and pharmaceutical.

Klübersynth UH1 14-222 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 Klübersynth UH1 14-222 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

## Application

Klübersynth UH1 14-222 is suitable for use in machines, installations and equipment of the food-processing and pharmaceutical industries, particularly for lubrication points that may have incidental and technically unavoidable contact with the food product.

This food-grade lubricant is intended for the universal lubrication of rolling and plain bearings, lifting cylinders, joints, guide rods and rails, cams, etc.

## Application notes

Klübersynth UH1 14-222 is applied by brush, spatula, grease gun or grease cartridge.

Before applying Klübersynth UH1 14-222, the lubrication points should be thoroughly cleaned so as to ensure maximum hygiene, which is mandatory for H1 lubrication.

If the production process does not allow the machines and components to be cleaned, the grease can be replaced by relubrication. In this case, perfect H1 lubrication is only achieved after a certain time.

In all questions regarding the miscibility of greases, our Technical Consulting and Sales Department will be pleased to offer advice.

## 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- 222
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Product data	Klübersynth UH1 14- 222
Article number	096071
NLGI grade, DIN 51818	2
NSF-H1 registration	128 827
Lower service temperature	-25 °C / -13 °F
Upper service temperature	120 °C / 248 °F
Colour space	beige



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Product data	Klübersynth UH1 14- 222
Texture	homogeneous
Density at 20 °C	approx. 0.92 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 260 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 29 mm <sup>2</sup> /s
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	6 000 mPas
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, upper limit value	12 000 mPas
Low-temperature torque, IP 186, - 25 °C, start	<= 1 000 mNm
Low-temperature torque, IP 186, - 25 °C, running	<= 100 mNm
Drop point, DIN ISO 2176, IP 396	>= 220 °C
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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