

Klüberpaste UH1 96-402

Light-coloured high-temperature paste for the food-processing and pharmaceutical industries



Benefits for your application

- **Reliable dry lubrication at temperatures from 200 °C to 1200 °C**
 - **Good adhesion to the friction point, also when subject to humidity**
 - **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

Klüberpaste UH1 96-402 is a high-temperature paste designed for versatile assembly purposes in hygienically sensitive environments. It contains fully synthetic base oils and a special blend of ceramic solid lubricants.

Across the “normal” temperature range up to approx. 160 °C, Klüberpaste UH1 96-402 is a water-resistant lubricating and assembly paste providing good adhesion on metals.

Under permanently higher temperatures up to 1200 °C, its solid lubricating particles provide protection against tribocorrosion or fretting corrosion.

Klüberpaste UH1 96-402 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 Klüberpaste UH1 96-402 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Klüberpaste UH1 96-402 is suitable for a variety of friction points in food-processing and pharmaceutical machines which are subject to high loads

- as an assembly paste for transition and loose fits to prevent fretting corrosion
- as a paste for screw connections based on high-alloy steels to optimise the tightening torque and demounting, even after long operating periods
- as a long-term lubricant for low-speed guide rails, hinges, rollers, etc.

Application notes

Before applying Klüberpaste UH1 96-402 it is important to clean and degrease the contact surfaces thoroughly. A thin layer of the paste is then applied by brush, leather cloth or synthetic sponge. Klüberpaste UH1 96-402 spreads easily over the entire surface, facilitating easy processing. We recommend carrying out compatibility tests before applying the paste to plastic materials. Equipment manufacturers and operators should therefore conduct risk analyses prior to such applications. Measures to exclude health or injury risks are to be undertaken if necessary.

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

Opened packs must be thoroughly closed again after use to protect the paste from contamination.

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 Lubrication.



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Pack sizes	Klüberpaste UH1 96-402
Tube 80 g	+
Cartridge 600 g	+
Can 750 g	+
Bucket 30 kg	+

Product data	Klüberpaste UH1 96-402
Article number	005116
NSF-H1 registration	056 338
Lower service temperature	-30 °C / -22 °F
Upper service temperature	1200 °C / 2192 °F
Colour space	grey
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 57 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 360 mm ² /s
Four-ball tester, welding load, DIN 51350 pt. 04	>= 2 500
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	approx. 1 - 90 rating

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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