

Klübersynth UH1 64-1302

Synthetic lubricating grease for the food and pharmaceutical industry



Benefits for your application

Higher component availability and longer maintenance intervals

- due to good wear protection
- due to good stability also at high temperatures
- due to good resistance to water and steam

Certified acc. to ISO 21469 - 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.

Description

Klübersynth UH1 64-1302 was specifically developed for grease-lubricated roller chains operating under high loads in the mixed friction regime in continuous flow sterilizers. Klübersynth UH1 64-1302 thus offers excellent wear protection even under extreme lubricating conditions.

Being highly resistant to water and steam, this adhesive lubricating grease is particularly suitable for applications in a saturated steam atmosphere at normal sterilisation temperatures.

Klübersynth UH1 64-1302 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 64-1302 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Good adhesiveness, excellent protection against wear and strong resistance to steam and water make Klübersynth UH1 64-1302 ideal for the following applications: high-load low-speed rolling and plain bearings, joints, toothed racks, tubular tracks, cams, stuffing boxes, high-load and grease-lubricated chains, etc.

Application notes

Klübersynth UH1 64-1302 is applied by brush, spatula, grease gun, or centralised lubrication systems designed for NLGI 3 greases.

Material safety data sheets

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

Pack sizes	Klübersynth UH1 64-1302
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+
Bucket 50 kg	+

Product data	Klübersynth UH1 64-1302
Article number	096049
NLGI grade, DIN 51818	2
NSF-H1 registration	136 697



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Product data	Klübersynth UH1 64-1302
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	silicate
Lower service temperature	-10 °C / 14 °F
Upper service temperature	140 °C / 284 °F
Colour space	beige
Texture	fibrous
Texture	homogeneous
Density at 20 °C	approx. 0.99 g/cm ³
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. 1 300 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 100 mm ² /s
Speed factor (n x dm)	approx. 100 000 mm/min
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	15 000 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	20 000 mPas
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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