

# Klübersynth UH1 64-1302

Synthetic lubricating grease for the food and pharmaceutical industry



## Your benefits at a glance

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

## Your requirements - our solution

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](http://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	+
Drum 180 kg	+

# Klübersynth UH1 64-1302

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Characteristics	Klübersynth UH1 64-1302
Article number	096049
Composition, thickener	silicate
Composition, type of oil	synthetic hydrocarbon oil
Colour space	beige
Texture	fibrous , homogeneous
Service temperature, lower limit	-10 °C
Service temperature, upper limit	140 °C
NSF H1 registration number	136697
Density, Klüber method: PN 024, 20°C	approx. 0.99 g/cm <sup>3</sup>
NLGI grade, DIN 51818	2
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , lower limit	15000 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , upper limit	22000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 100 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 1300 mm <sup>2</sup> /s
Four-ball tester, welding load, DIN 51350-4	≥ 2800 N
Water resistance, DIN 51807-1, 3 h, 90°C	≤ 1 - 90 rating
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 90 years.

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