

# Klübersynth UH1 14-31

Synthetic smooth-running grease for the food-processing and pharmaceutical industries



## Your benefits at a glance

- Reliable operation also at low temperatures due to soft consistency and low base oil viscosity
- Reduced risk of premature component failure due to good adhesion and anticorrosive behaviour
- Lubricant starvation prevented by very good pumpability in centralised lubricating systems
- NSF-H1 registration for higher process reliability

## Your requirements - our solution

Klübersynth UH1 14-31 was especially developed for the food-processing and pharmaceutical industries. This lubricant is NSF H1-registered and therefore complies with FDA 21 CFR § 178.3570.

The use of Klübersynth UH1 14-31, an NSF H1-registered lubricant, is a contributor towards the supporting of food safety. This 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.

Klübersynth UH1 14-31 excels by its low-temperature and anti-wear properties as well as good water resistance and effective wear- and corrosion protection.

## Application

Klübersynth UH1 14-31 is used on machines and equipment in the food-processing and pharmaceutical industries, preferably at lubrication points where technically unavoidable contact with the food product cannot be excluded. However, we recommend supplying all lubrication points in the area with Klübersynth UH1 14-31 so as to avoid problems of lubricant contamination.

Klübersynth UH1 14-31 should preferably be used when extremely smooth running and a wide speed range are required.

It is intended for plain- and rolling bearings, lifting cylinders, joints, seals, etc. as well as for the lubrication of friction points in freeze and deep-freeze tunnels or for chains which run more smoothly when lubricated with a soft grease.

## MOSH-MOAH Hint

The chromatographic measurement of MOSH can also detect saturated hydrocarbons of form other sources than mineral oil so it may be possible for chromatographic MOSH peaks to be detected in some Klüber Lubrication H1 products.

## Application notes

Klübersynth UH1 14-31 can be applied by brush, spatula, grease gun or automatic lubricating systems.

Service temperatures of Klübersynth UH1 14-31 range from -45 °C to 120 °C. For certain applications, lower temperatures are also possible. The lubricating film retains its functionality down to approx. -70 °C.

## 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 14-31
Cartridge 370 g	+
Cartridge 370 g	+
Can 1 kg	+
Bucket 25 kg	+
Bucket 50 kg	+

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Pack sizes	Klübersynth UH1 14-31
Drum 170 kg	+
Characteristics	Klübersynth UH1 14-31
Article number	096029
Mineral Oils associated with MOSH (Mineral Oil Saturated Hydrocarbons) / MOAH (Mineral Oil Aromatic Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	Intentionally added
Colour space	white
Texture	homogeneous , short fibrous
Functional lubricant film	≥ -70 °C
Service temperature, lower limit	-45 °C
Service temperature, upper limit	120 °C
NSF H1 registration number	056356
Density, Klüber method: PN 024, 20°C	approx. 0.9 g/cm <sup>3</sup>
NLGI grade, DIN 51818	1
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	310 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	340 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 6 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 30 mm <sup>2</sup> /s
Flow pressure, DIN 51805-2, -45°C	≤ 1400 mbar
Dropping point, DIN ISO 2176 / IP 396	≥ 220 °C
Speed factor (n x dm)	approx. 700000 mm/min
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

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## 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 95 years.

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