

# Klübersynth HIP 84-401

High-temperature grease for friction pairings subject to high loads



## Benefits for your application

- **Thermally stable; peaks to 180 °C**
  - longer service life
- **Lower frictional resistance**
  - lower operating temperature
- **Noise dampening**
  - less vibration
  - noise prevention

## Description

Klübersynth HIP 84-401 is a white, dynamically medium-heavy lubricating grease based on synthetic hydrocarbon oil. It shows good compatibility with plastics even at high temperatures.

## Application

For friction pairings operating under high loads, in particular plastic/plastic, plastic/metal or metal/metal, e.g. joints. Dampening in car interior, gear shifting gate, control knobs, guide rails, small gears. For c.v. joints in longitudinal and axle shafts. Compensation of tolerances.

The application of Klübersynth HIP 84-401 allows a pleasant and high-quality switching feel.

**Compatibility with plastics:** Compatibility tests showed a neutral behaviour towards most plastic materials. Owing to the many different types of plastic, their compatibility and interaction with the lubricant in contact should be checked prior to series application.

## Application notes

Klübersynth HIP 84-401 can be applied by brush, spatula, grease gun, metering gun, automatic metering devices, grease cartridge, common metering systems.

## 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 HIP 84-401
Drum 180 kg	+

Product data	Klübersynth HIP 84-401
Article number	004267
Chemical composition, type of oil	synthetic hydrocarbon oil
Lower service temperature	-50 °C / -58 °F
Upper service temperature	160 °C / 320 °F
Colour space	white
Density at 20 °C	approx. 1.10 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	295 x 0.1 mm



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Worked penetration, DIN ISO 2137, 25 °C, upper limit value	325 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 400 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 40 mm <sup>2</sup> /s
Flow pressure of lubricating greases, DIN 51805, test temperature: -50 °C	<= 1 400 mbar
Drop point, DIN ISO 2176, IP 396	>= 250 °C
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

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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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