

Klübersynth HB 74-401

Synthetic long-life high-temperature grease



Benefits for your application

- Extended component life due to good antiwear effect and corrosion protection
- Cost reduction due to longer relubrication intervals even at elevated temperatures through synthetic grease technology
- Wider service temperature range allows lubricant stock rationalisation

Description

Klübersynth HB 74-401 is a lubricating grease containing a high-quality synthetic base oil and a polyurea thickener. This combination enables long-term lubrication over a wide temperature range. The high base oil viscosity and special additives help to attain good wear protection under high loads.

Application

Klübersynth HB 74-401 is preferably used in rolling and plain bearings exposed to high temperature, e.g. in the steel or cement industries. Applications include:

- drive rollers in continuous casting installations
- conveyor roller bearings in continuous furnaces
- roller bearings in vertical mills
- pinion support bearings

Application notes

Klübersynth HB 74-401 can be applied by means of spatula, brush, grease gun or centralised lubricating systems. Ideally, all lubrication points should be cleaned and old grease be removed prior to the application of Klübersynth HB 74-401. If the friction points cannot be cleaned for technical reasons, we recommend replacing the existing grease by more frequent relubrication in the initial phase after changeover.

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 HB 74-401
Cartridge 400 g	+
Can 1 kg	+
Drum 180 kg	+

Product data	Klübersynth HB 74-401
Article number	004282
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	polyurea
Lower service temperature	-40 °C / -40 °F
Upper service temperature	200 °C / 392 °F
Colour space	beige
Texture	homogeneous
Texture	long-fibred
Density at 20 °C	approx. 0.85 g/cm ³
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C, lower limit	380 mm ² /s

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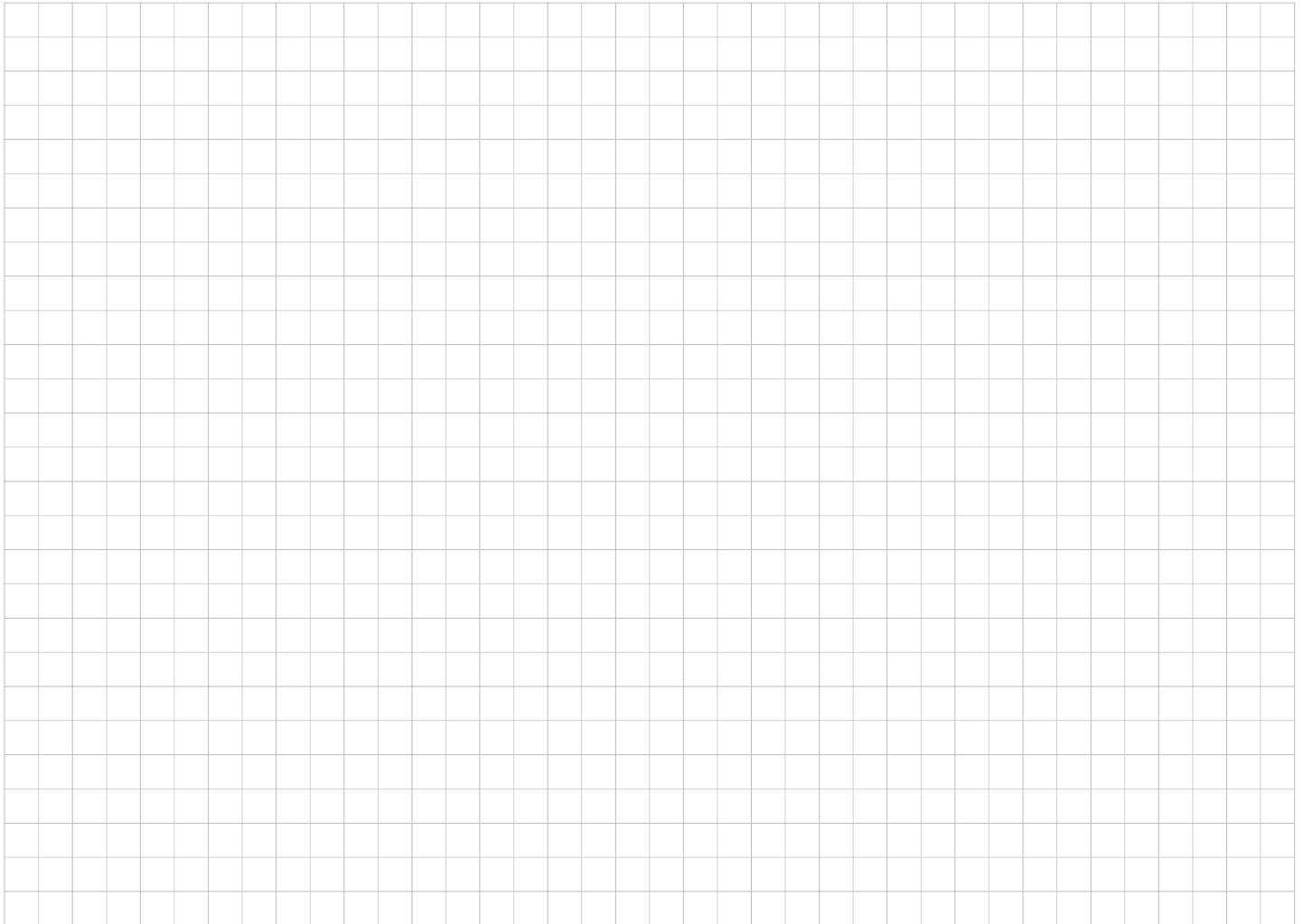
Product data	Klübersynth HB 74-401
Kinematic viscosity of the base oil, DIN 51562 pt.01/ASTM D-445/ASTM D 7042, 40 °C, upper limit	430 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C, lower limiting value	38 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C, upper limit	42 mm ² /s
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	280 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	310 x 0.1 mm
Speed factor (n x dm)	approx. 500 000 mm/min
Shear viscosity at 25°C, shear rate 300 s ⁻¹ , equipment:rotational viscometer, upper limit value	4 500 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	3 000 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 230 °C
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 400 mbar
Oil separation, DIN 51817 N, after 7 d/40 °C	<= 5 % by weight
Testing of lubricating greases on FAG FE9 rolling bearing tester, DIN 51821 pt. 02, speed: 6000 min ⁻¹ , axial load: 1500 N, temperature: 180 °C, service life F50:	>= 100 h
Lubricating greases -K, DIN 51825 in connection with DIN 51502	KHC1/2*R-40 *280-310
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	0 - 90
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 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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