

Klüberlub PHB 71-461

High-temperature lubricating grease



Benefits for your application

- High-temperature lubricating grease for rolling bearings up to 180°C
- For low to medium speeds
- Good pumpability in most commercially available lubrication systems
- Blue colour, hence less risk of confusion / mixing etc.
- Good wear protection and high load-carrying capacity
- Good corrosion protection
- Resistant to water

Description

Klüberlub PHB 71-461 is a special high-temperature lubricating grease based on mineral oil and polyurea. It is suitable for a wide service temperature range and can be used up to 180°C under continuous relubrication conditions. Klüberlub PHB 71-461 may be applied via centralized lubrication equipment.

Klüberlub PHB 71-461 incorporates special EP additives ensuring good wear protection under high load conditions.

Klüberlub PHB 71-461 provides reliable corrosion resistance in a wet environment as well as good adhesion and oxidation stability. Its blue colour allows simple identification and assessment of general grease condition whilst helping eliminate the possibility of mixing with foreign greases.

Application

Klüberlub PHB 71-461 was especially designed for high temperature applications in continuous fibreboard presses.

The grease is used for the lubrication of drum bearings, guide rollers, shaft bearings and plain bearings in Siempelkamp and Dieffenbacher fibreboard manufacturing equipment.

Further applications include high-temperature lubrication points subject to high loads, moisture and temperature variations such as those found in:

- conveyors
- dryers
- steel mills.

Application notes

Klüberlub PHB 71-461 can be applied via most commercially available centralized lubrication systems.

The product should be continuously purged through small bore pipes, which are exposed to high pressure and temperature.

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	Klüberlub PHB 71-461
Bucket 25 kg	+

Product data	Klüberlub PHB 71-461
Article number	020508
Chemical composition, type of oil	mineral oil
Chemical composition, thickener	polyurea
Lower service temperature	-10 °C / 14 °F
Upper service temperature	180 °C / 356 °F
Colour space	blue



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Product data	Klüberlub PHB 71-461
Texture	long-fibred
Texture	homogeneous
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
Copper corrosion, DIN 51811, (lubricating grease), 24h/130 °C	1 -130 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/150 °C	4-150 corrosion degree
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	>= 240 °C
Speed factor (n x dm)	200 000 mm/min
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90
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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