

# Klübergrease BE 71-461

High-temperature grease



## Benefits for your application

- **Considerable cost savings through**
  - an attractive price-performance ratio
  - lower lubricant consumption due to high thermal stability
  - lower waste water disposal costs as the product is highly resistant to water, leading to lower contamination
- **Longer maintenance intervals due to good load-carrying capacity and good resistance to wear and corrosion**
- **Easy and convenient application due to good pumpability and metering via centralised lubrication systems**

## Description

### Your requirements - our solution

As an operator or OEM of large installations where rolling bearings run under high loads, you have to observe a wide variety of influences: to ensure trouble-free operation, reduce downtime and increasing pressure for cost savings.

Klübergrease BE 71-461 is a high-temperature mineral oil grease with a polyurea thickener that has been tried and tested over many years. The product offers a wide service temperature range up to 180 °C, or with continuous relubrication even 200 °C. Klübergrease BE 71-461 offers strong antiwear properties, very good adhesion and resistance to water. Klübergrease BE 71-461 is also highly resistant to oxidation and protects your bearings reliably against corrosion. All these effects help to reduce your maintenance expenses at a very moderate lubricant purchase cost.

## Application

Besides lubrication directly at the individual lube point by means of grease gun or lubricant dispenser (e.g. Klübermatic NOVA), Klübergrease BE 71-461 can also be applied to high-temperature areas conveniently via centralised lubrication systems, e.g. in

- support roller bearings in continuous casting installations
- load roller bearings in continuous furnaces

Such applications involve particularly taxing requirements for our lubricant such as high operating temperatures, slow to medium speeds, variable loads, presence of water and hence a corrosive effect. Our Klübergrease BE 71-461 is the ideal choice for these applications, but it may also be used for many other high-temperature lubrication points, e.g. in:

- annealing furnaces or drying kilns
- plain bearings in foundry cranes
- high-temperature rollers in paper and cardboard factories
- road surfacing machines
- bulk material gate valves
- cooling beds, conveyors
- rotary kilns
- machines and installations in the automotive, beverage, glass and ceramics industries

If you wish to optimise the service life of your equipment or have any other questions regarding your application, our experts will be pleased to help you.

## Application notes

Klübergrease BE 71-461 can be applied by brush, spatula or industrial 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.

# Klübergrease BE 71-461

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Pack sizes	Klübergrease BE 71-461
Cartridge 400 g	+
Bucket 25 kg	+
Drum 180 kg	+

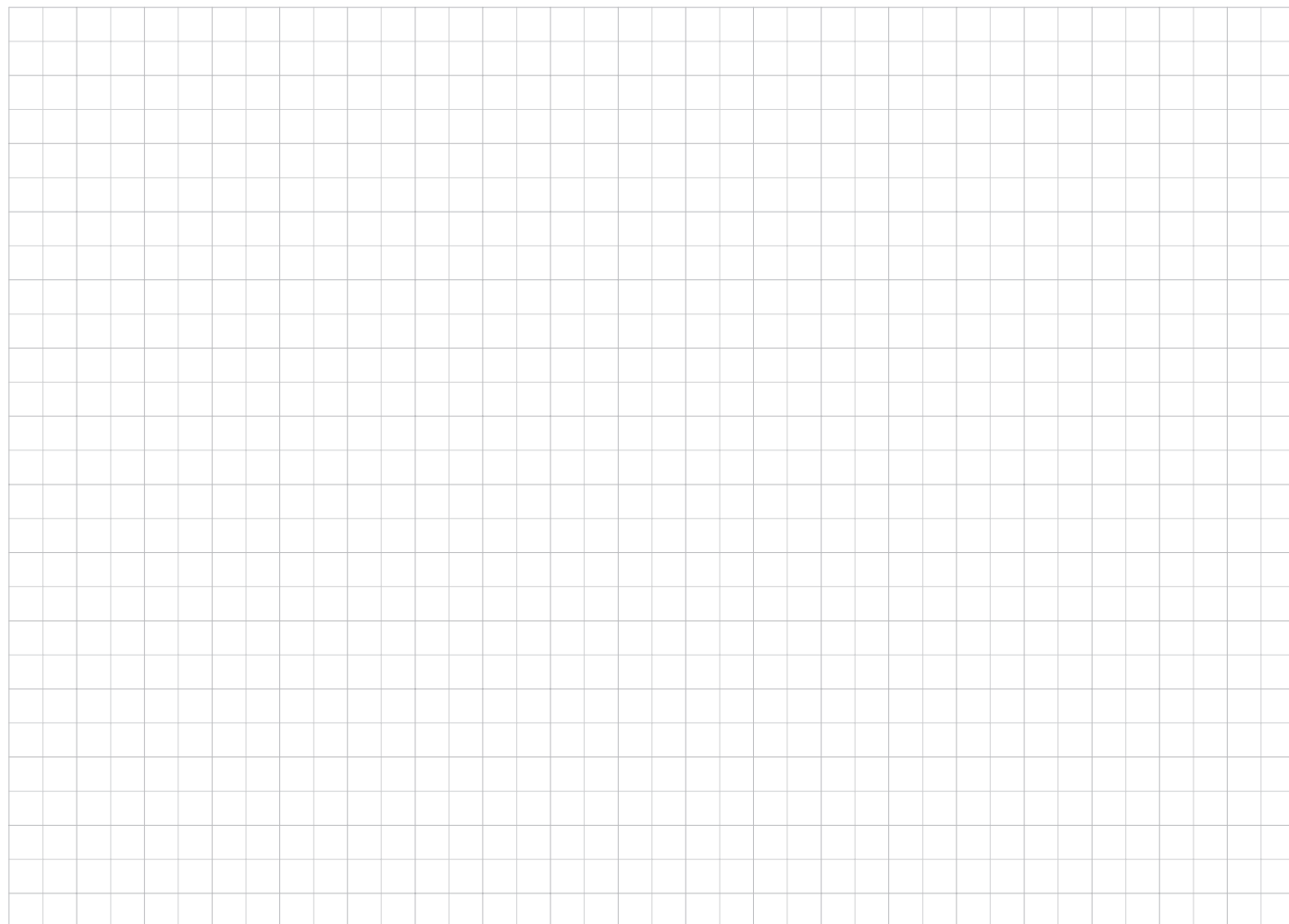
Product data	Klübergrease BE 71-461
Article number	020521
Chemical composition, type of oil	mineral oil
Chemical composition, thickener	polyurea
Lower service temperature	-20 °C / -4 °F
Service temperature, upper limiting value for continuous lubrication	180 °C
Colour space	beige
Appearance	transparent
Texture	long-fibred
Texture	homogeneous
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 460 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 31.5 mm <sup>2</sup> /s
NLGI grade, DIN 51818	1
Copper corrosion, DIN 51811, (lubricating grease), 24h/120 °C	1 - 120 corrosion degree
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C	<= 1 400 mbar
Drop point, DIN ISO 2176, IP 396	>= 240 °C
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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## 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.

**Klüber Lubrication München SE & Co. KG /  
Geisenhausenerstraße 7 / 81379 München / Germany /  
phone +49 89 7876-0 / fax +49 89 7876-333.**

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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