

# Klüberlub BE 41-1002

Heavy-duty grease for low-speed rolling bearings subject to high load



## Benefits for your application

- **High efficiency and low maintenance requirements due to**
  - long service lifetime with extended relubrication intervals
  - reliable application by means of centralised lubrication systems
- **Prolonged component lifetime due to excellent wear protection based on**
  - high base oil viscosity in combination with special antiwear additives and black solid lubricants for emergency lubrication
  - Good adhesion as well as good water resistance and corrosion protection
- **Good pumpability at low temperatures enables operation also in cold climate**

## Description

Klüberlub BE 41-1002 is a heavy-duty lubricating grease based on highly viscous mineral oil and a special lithium thickener as well as particularly functional additives.

Klüberlub BE 41-1002 is a long-life lubricating grease with good load-carrying capacity, good antiwear and corrosion protection as well as very good pumpability even under low temperature.

## Application notes

Klüberlub BE 41-1002 can be applied by means of spatula, grease gun or centralised lubricating systems. Ideally, all lubrication points should be cleaned and old grease be removed prior to the application of Klüberlub BE 41-1002. 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.

## Application

Klüberlub BE 41-1002 was especially designed and developed for large low-speed rolling bearings subject to high loads.

It can be typically applied to lubricate the bearings of rollers (spherical roller bearings) in roller presses, bowl mills and rotary crushers in the base material industry.

This grease is also suitable for the lubrication of pivoting bearings and plain bearings.

## 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	Klüberlub BE 41-1002
Bucket 25 kg	+
Drum 180 kg	+

Product data	Klüberlub BE 41-1002
Article number	020347
Lubricating greases -K, DIN 51825 in connection with DIN 51502	KPF2K-10
Chemical composition, type of oil	mineral oil
Chemical composition, thickener	special lithium soap
Lower service temperature	-15 °C / 5 °F
Upper service temperature	120 °C / 248 °F
Colour space	black
Texture	long-fibred



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Product data	Klüberlub BE 41-1002
Texture	homogeneous
Density at 20 °C	approx. 0.92 g/cm <sup>3</sup>
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
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 1 000 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 55 mm <sup>2</sup> /s
NLGI grade, DIN 51818	2
Flow pressure of lubricating greases, DIN 51805, test temperature: -15 °C	<= 1 400 mbar
Drop point, DIN ISO 2176	>= 180 °C
Four-ball tester, welding load, DIN 51350 pt. 04	>= 4 000 N
Rolling bearing test FAG FE8, tapered roller bearing 31312 a, 75 min <sup>-1</sup> , 80 kN, 80 °C, 500 h, wear of cage	<= 100 mg
Rolling bearing grease test FAG FE8, tapered roller bearing 31312 A, 75 min <sup>-1</sup> / 80kN, 80°C , 500 h, wear of rolling bearing	<= 30 mg
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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