

Klüberlub BE 41-542

Heavy-duty grease for high-load rolling bearings



Your benefits at a glance

- Good pressure absorption capacity
- Very good wear protection
- High corrosion protection
- Strong adhesiveness

Your requirements - our solution

High loads and shocks can damage rolling bearings and lead to their premature failure.

To prevent this, we developed Klüberlub BE 41-542 on the basis of highly viscous mineral oil, lithium special soap, EP/AW and anticorrosive additives.

This selected combination makes Klüberlub BE 41-542 a preferred choice for numerous applications involving high loads.

Application

Typical Klüberlub BE 41-542 applications are in high-load roller bearings operating at low to medium speeds such as for

- load rollers in rotary kilns for the cement industry
- crane wheels

- bucket wheel excavators
- hammer crushers, hammer mills
- work rolls in hot strip mills
- cold pilger rolling mills
- rolling bearings subject to shock or pulsating stress
- shock absorbers in washing machines

Application notes

The ambient temperature should be ≥ 15 °C when applying the product with an automatic grease pump.

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 BE 41-542
Cartridge 400 g	+
Can 1 kg	+
Bucket 5 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Characteristics	Klüberlub BE 41-542
Article number	020269
Chemical composition, type of oil	mineral oil
Lower service temperature	-20 °C
Upper service temperature	140 °C

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Characteristics	Klüberlub BE 41-542
Colour space	brown
Chemical composition, thickener	special lithium soap
NLGI grade, DIN 51818	2
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Texture	homogeneous
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Density at 20 °C	ca. 0,93 g/cm ³
Drop point, DIN ISO 2176, IP 396	>= 230 °C
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	ca. 540 mm ² /s
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C	<= 1400 mbar
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	ca. 28 mm ² /s
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90
Four-ball tester, welding load, DIN 51350 pt. 04	>= 3000 N
Speed factor (n x dm)	ca. 500000 mm/min
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Testing of lubricating greases on FAG FE9 rolling bearing tester, DIN 51821 pt. 02, speed: 6000 min ⁻¹ , axial load: 1500 N, temperature: 140 °C, service life F50:	>= 100 h
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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 90 years.

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