

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 25 kg	+
Drum 180 kg	+

Characteristics	Klüberlub BE 41-542
Article number	020269
Composition, thickener	lithium complex soap
Composition, type of oil	mineral oil
Colour space	brown
Texture	homogeneous

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Characteristics	Klüberlub BE 41-542
Service temperature, lower limit	-20 °C
Service temperature, upper limit	140 °C
Density, Klüber method: PN 024, 20°C	approx. 0.93 g/cm ³
NLGI grade, DIN 51818	2
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 28 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 540 mm ² /s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Flow pressure, DIN 51805-2, -20°C	≤ 1400 mbar
Dropping point, DIN ISO 2176 / IP 396	≥ 230 °C
FAG FE9 rolling bearing test, DIN 51821-2, 1500 / 6000-140, service life F50	≥ 100 h
Four-ball tester, welding load, DIN 51350-4	≥ 3000 N
Speed factor (n x dm)	approx. 500000 mm/min
Water resistance, DIN 51807-1, 3 h, 90°C	≤ 1 - 90 rating
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.

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

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