

Klüberplex BE 31-102...-222...-502

Lubricating greases for extreme requirements



Benefits for your application

- **Longer component life**
 - due to reduced wear and good pressure absorption capacity
- **Reduced maintenance due to**
 - good sealing effect and resistance to water and other media
 - long relubrication intervals and good ageing and oxidation stability

Description

Klüberplex BE 31-102...-222...-502 are lubricating greases based on mineral oil and special calcium soap. They offer high resistance to mechano-dynamical loads and good adhesion properties. Klüberplex BE 31-102...-222...-502 are highly resistant to media, water and water vapour. We recommend testing compatibility prior to series application.

Application

Klüberplex BE 31-102...-222...-502 are lubricating greases for e.g. rolling and plain bearings, pivoting bearings, small gears. They can also be used as sealing and lubricating greases for labyrinth seals and industrial valves and fittings. These greases are used for the long-term and lifetime lubrication of e.g. rolling bearings in automotive components (water pump bearings, universal joint bushings), wet processing machines in the textile industry (festoon steamers, washing machines), spinning machines (top and bottom rollers of drafting frames), conveyors (load rollers in wet areas), paper machines (especially in wet sections), agricultural and construction machinery, machines in the food processing industry, as well as rolling bearings in electric motors, fans and pumps.

Application notes

Klüberplex BE 31-102...-222...-502 greases can be applied by grease guns, brush or spatula. For application via central lubrication systems, please check pumpability with the manufacturer. Commercial detergents can be used for pre-cleaning the friction points.

Compatibility with plastics and elastomers

Klüberplex BE 31-102...-222...-502 greases are compatible with plastics that are resistant to mineral oil or greases based on mineral oil. However, for safety reasons, we recommend checking compatibility prior to series application.

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	Klüberplex BE 31-102	Klüberplex BE 31-222	Klüberplex BE 31-502
Cartridge 400 g	+	+	+
Can 1 kg	+	+	+
Bucket 25 kg	+	+	+
Drum 180 kg	+	+	+

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Product data	Klüberplex BE 31-102	Klüberplex BE 31-222	Klüberplex BE 31-502
Article number	017135	017132	017126
Lower service temperature	-15 °C / 5 °F	-10 °C / 14 °F	-10 °C / 14 °F
Upper service temperature	120 °C / 248 °F	140 °C / 284 °F	140 °C / 284 °F
Texture	fibrous	fibrous	fibrous
Colour space	brown	brown	brown
Density at 20 °C	approx. 0.96 g/cm ³	approx. 0.96 g/cm ³	approx. 0.96 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm	245 x 0.1 mm	245 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm	275 x 0.1 mm	275 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 100 mm ² /s	approx. 220 mm ² /s	approx. 500 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 12 mm ² /s	approx. 19 mm ² /s	approx. 31 mm ² /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water		<= 1 corrosion degree	<= 1 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 190 °C	>= 190 °C	>= 190 °C
Speed factor (n x dm)	1 000 000 mm/min	500 000 mm/min	approx. 200 000 mm/min
Flow pressure of lubricating greases, DIN 51805, test temperature: -10 °C		<= 1 400 mbar	<= 1 400 mbar
Flow pressure of lubricating greases, DIN 51805, test temperature: -15 °C	<= 1 400 mbar		
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90	<= 1 - 90	<= 1 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	36 months	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.

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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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