

# Klüberplex BE 31-102...-222...-502

Lubricating greases for extreme requirements



## Your benefits at a glance

- 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

## Your requirements - our solution

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](http://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 15 kg	+	+	+
Bucket 25 kg	+	+	+
Bucket 50 kg		+	
Drum 180 kg	+	+	+

# Klüberplex BE 31-102...-222...-502

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Characteristics	Klüberplex BE 31-102	Klüberplex BE 31-222	Klüberplex BE 31-502
Article number	017135	017132	017126
Colour space	brown	brown	brown
Texture	fibrous , homogeneous	fibrous , homogeneous	fibrous , homogeneous
Service temperature, lower limit	-15 °C	-10 °C	-10 °C
Service temperature, upper limit	120 °C	140 °C	140 °C
Density, Klüber method: PN 024, 20°C	approx. 0.96 g/cm <sup>3</sup>	approx. 0.96 g/cm <sup>3</sup>	approx. 0.96 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm	245 0.1 mm	245 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm	275 0.1 mm	275 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 12 mm <sup>2</sup> /s	approx. 19 mm <sup>2</sup> /s	approx. 31 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 100 mm <sup>2</sup> /s	approx. 220 mm <sup>2</sup> /s	approx. 500 mm <sup>2</sup> /s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	-	≤ 1 corrosion degree	≤ 1 corrosion degree
Flow pressure, DIN 51805-2, -10°C	-	≤ 1400 mbar	≤ 1400 mbar
Flow pressure, DIN 51805-2, -15°C	≤ 1400 mbar	-	-
Dropping point, DIN ISO 2176 / IP 396	≥ 190 °C	≥ 190 °C	≥ 190 °C
Speed factor (n x dm)	1000000 mm/min	500000 mm/min	approx. 200000 mm/min
Water resistance, DIN 51807-1, 3 h, 90°C	≤ 1 - 90 rating	≤ 1 - 90 rating	≤ 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	36 months	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 95 years.

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