

Klübersynth EM 94-102

Special synthetic grease for extreme requirements



Benefits for your application

- Excellent corrosion and wear protection for reduced maintenance requirements and longer component life
- Versatile multipurpose lubricant allowing product streamlining and reducing the risk of confusing lubricants
- Wide service temperature range for year-round lubrication under various climatic conditions

Description

Klübersynth EM 94-102 is a fully synthetic lubricating grease incorporating a special calcium complex soap thickener.

The thickener enables formation of a resilient lubricating film providing high resistance to mechanical-dynamic loads whilst enabling excellent wear protection.

Klübersynth EM 94-102 can be used in a multitude of applications under different climatic conditions due to its wide service temperature range. Various friction points can therefore be supplied with one single lubricant avoiding confusion with multiple lubricant selection and use.

The excellent wear protection, adhesion characteristics, load capacity and low-temperature behaviour of Klübersynth EM 94-102 make it suitable for a multiplicity of application uses.

Application notes

Klübersynth EM 94-102 can be applied by spatula, brush or grease gun.

Ideally, all lubrication points should be cleaned and old grease be removed prior to the application of Klübersynth EM 94-102. If the friction points cannot be cleaned, we recommend replacing the existing grease by frequent relubrication purging.

Application

With excellent resistance to water and good corrosion protection, Klübersynth EM 94-102 is especially suitable for use in wet and humid areas. Application examples include winter sport applications like ski lifts and piste vehicles, or industrial off shore and marine applications.

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	Klübersynth EM 94-102
Can 1 kg	+
Cartridge 400 g	+
Bucket 25 kg	+
Drum 180 kg	+

Product data	Klübersynth EM 94-102
Article number	004305
NLGI grade, DIN 51818	2
Chemical composition, thickener	calcium complex soap
Chemical composition, type of oil	synthetic hydrocarbon oil
Lower service temperature	-30 °C / -22 °F
Upper service temperature	140 °C / 284 °F
Colour space	brown
Texture	homogeneous
Density at 20 °C	approx. 0.91 g/cm ³



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Product data	Klübersynth EM 94-102
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. 100 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 14.6 mm ² /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Functional lubricant film	approx. -40 °C
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ ; equipment:rotational viscometer	<= 7 000 mPas
Drop point, DIN ISO 2176	>= 250 °C
Four-ball tester, welding load, DIN 51350 pt. 04	>= 3 000 N
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	0 - 90
Speed factor (n x dm)	approx. 500 000 mm/min
Lubricating greases -K, DIN 51825 in connection with DIN 51502	KPHC2H-30
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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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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