Klübersynth EM 94-102

Special synthetic grease for extreme requirements

Your benefits at a glance

- 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

Your requirements - our solution

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.

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.

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.

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
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+

Characteristics	Klübersynth EM 94-102
Article number	004305
Composition, thickener	calcium complex soap
Composition, type of oil	synthetic hydrocarbon oil
Colour space	brown
Texture	homogeneous

a brand of FREUDENBERG

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Characteristics	Klübersynth EM 94-102
Functional lubricant film	approx. -40 °C
Service temperature, lower limit	-30 °C
Service temperature, upper limit	140 °C
Lubricating greases - K, DIN 51825@DIN 51502	KPHC2H-30
Density, Klüber method: PN 024, 20°C	approx. 0.91 g/cm³
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
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s^{-1}	≤ 7000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 14.6 mm²/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 mm²/s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 164 h	≤ 1 corrosion degree
Dropping point, DIN ISO 22286 / IP 396	≥ 250 °C
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	0 - 90 rating
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 95 years.

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