

Klübersynth LE 44-31

Lubricating grease for worm gears with optimised friction coefficient



Benefits for your application

- Low friction coefficient and optimum efficiency provide energy savings
- Permits tight gearing because of good wear protection and a low friction coefficient
- Reduced trialling requirements thanks to positive results in component testing with many of our customers

Description

Klübersynth LE 44-31 shows particularly low friction coefficients at high percentages of sliding friction for steel/plastic combinations. Tests were conducted with all combinations of known grease components with the aim of determining the one with the lowest friction coefficient, which is now available as Klübersynth LE 44-31.

Application

For very low friction coefficients in steel/plastic worm gears, aimed particularly toward the requirements of Electric Power Steering Systems (EPS). Particularly suitable for plastic/plastic and plastic/steel friction points with high percentages of sliding friction. Also tested with good results for high surface pressure above 150N/mm² in steel/polyamide combinations.

Application notes

Klübersynth LE 44-31 can be applied by brush, spatula, grease gun, grease metering gun, automatic metering devices, grease cartridge, customary metering devices or central lubricating systems (single-line). We recommend to test the metering under conditions of practice with the original equipment prior to use.

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 LE 44-31
Drum, 180 kg	+

Product data	Klübersynth LE 44-31
Article number	004275
Chemical composition, thickener	lithium soap
Chemical composition, solid lubricant	PTFE
Chemical composition, type of oil	synthetic hydrocarbon oil
Lower service temperature	-50 °C / -58 °F
Upper service temperature	130 °C / 266 °F
Colour space	white
Texture	homogeneous
Texture	fibrous
Density at 20 °C	approx. 0.95 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	360 x 0.1 mm
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 190 °C



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Flow pressure of lubricating greases, DIN 51805, test temperature: -50 °C	<= 1 400 mbar
Oil separation, DIN 51817 N, after 7 d/40 °C	<= 10 % by weight
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 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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