

BARRIERTA GTE 403

High-temperature lubricating grease



Benefits for your application

- Long-term and lifetime lubricant for rolling bearings
- Wide service temperature range
- Neutral towards most elastomers and plastics
- Resistant to water and chemicals
- For the lubrication of contacts, e.g. plug-in contacts

Description

BARRIERTA GTE 403 is a synthetic high-temperature lubricating grease based on perfluorinated polyether oil and PTFE.

BARRIERTA GTE 403 is resistant to chemicals and aggressive media such as concentrated acids, alkaline solutions and organic solvents (except for fluorinated hydrocarbon solvents, strong bases, earth/alkali metals and Lewis acids). It is neutral to most elastomers and plastics.

Application

BARRIERTA GTE 403 is especially suitable for long-term and lifetime lubrication of rolling bearings subject to extreme temperatures, for example electric motor bearings (Siemens electric motor test at 150 °C: > 5000 h) or piston pins in dry-running compressors. Furthermore it can be used for the lubrication of electric contacts, e.g. gold, silver and tin plug-in contacts. BARRIERTA GTE 403 is also used for plastic/plastic combinations in the optical and optoelectronic industries.

Application notes

Bearings should be equipped with cap or seal in order to achieve long service life.

Prior to the first application, clean all friction points with white spirit 180/210 and then with Klüberalfa XZ 3-1. Upon cleaning apply clean dry compressed air or hot air to remove any remaining white spirit residues. For initial lubrication, the friction point must be clean and bright (i.e. free from oil, grease or perspiration) and free from particles.

To remove lubricants based on perfluorinated polyether oil, such as BARRIERTA, use the solvent and cleaning agent Klüberalfa XZ 3-1.

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	BARRIERTA GTE 403
Can 1 kg	+

Product data	BARRIERTA GTE 403
Article number	090012
Chemical composition, type of oil	PFPE
Chemical composition, thickener	PTFE
Lower service temperature	-35 °C / -31 °F
Upper service temperature	260 °C / 500 °F
Colour space	white
Density at 20 °C	approx. 1.95 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	220 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	250 x 0.1 mm



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Product data	BARRIERTA GTE 403
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 400 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 38 mm ² /s
Speed factor (n x dm)	300 000 mm/min
NLGI grade, DIN 51818	3
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	8 000 mPas
Shear viscosity at 25°C, shear rate 300 s ⁻¹ , equipment:rotational viscometer, upper limit value	12 000 mPas
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 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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