

Klüberlectric BE 44-152

Electroconductive rolling bearing grease



Benefits for your application

- **Longer component life**
 - due to long-term and for-life lubrication of rolling bearings subject to static electricity
 - due to excellent wear protection based on special additives and solid lubricants

Description

Klüberlectric BE 44-152 is a fully synthetic lubricating grease based on a synthetic hydrocarbon oil, lithium soap and dark solid lubricants. Due to its special composition, static electricity in rolling bearings is conducted through the grease, thus preventing local voltage discharge, which would severely damage the bearing raceways and rolling elements.

Application

Klüberlectric BE 44-152 has been designed for the long-term lubrication of rolling bearings in which static electricity may occur, such as electric motors, paper-making machines, copying machines, film-stretching stenters, guides in conveyors and fans. Klüberlectric BE 44-152 has proven efficient for ball and roller bearings subject to a current intensity of approx. 1 Ampere. The electric conductivity of Klüberlectric BE 44-152 has been determined in tests based on DIN 53 482 (withdrawn).

On the rolling bearing test rig FAG-FE9 acc. to DIN 51 821 and on FAG-FE8 acc. to DIN 51 819, the product showed very good service life and wear protection.

Application notes

Klüberlectric BE 44-152 can be applied by spatula, brush or grease gun. If central lubrication systems are to be used, please check pumpability beforehand.

Owing to the many different elastomer and plastic compositions their compatibility has to be checked prior to series 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	Klüberlectric BE 44-152
Can 1 kg	+
Bucket 25 kg	+

Product data	Klüberlectric BE 44-152
Article number	091053
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	lithium soap
Chemical composition	solid lubricant
Lower service temperature	-40 °C / -40 °F
Upper service temperature	150 °C / 302 °F
Colour space	black
Texture	homogeneous
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. 150 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 19 mm ² /s



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Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Specific resistance based on DIN 53482 (standard withdrawn); electrode spacing:1 cm; grease quantity: 1 cm ³	<= 10 000 Ohm cm
Oil separation, DIN 51817 N, after 7 d/40 °C	<= 4 % by weight
Oil separation, based on ASTM D 6184 [FTMS 791 C 321] after 30 h/150 °C	<= 10 % by weight
Shell roll stability, based on ASTM-D 1831, after 50 h, 130°C, difference in penetration	<= +50 x 0.1 mm
Speed factor (n x dm)	1 000 000 mm/min
Testing of lubricating greases on FAG FE9 rolling bearing tester, DIN 51821 pt. 02, speed: 6000 min-1, axial load: 1500 N, temperature: 150 °C, service life F50:	>= 100 h
Rolling bearing grease test FAG FE8, tapered roller bearing 31312 A , room temperature, 75 min-1 / 75kN,500h, rolling bearing wear	approx. 34 mg
Rolling bearing grease test FAG FE8, tapered roller bearing 31312 A, 75 min-1 / 50kN, room temperature, 500 h, wear of cage	approx. 12 mg
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	0 - 90
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.

**Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

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