

Klüberlectric BE 44-152

Electroconductive rolling bearing grease



Your benefits at a glance

- 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

Your requirements - our solution

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 EN 62631-3-1. 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	+

Characteristics	Klüberlectric BE 44-152
Article number	091053
Composition	solid lubricant
Composition, thickener	lithium soap
Composition, type of oil	synthetic hydrocarbon oil
Colour space	black
Texture	homogeneous



Klüberlectric BE 44-152

Electroconductive rolling bearing grease



Characteristics	Klüberlectric BE 44-152	
Service temperature, lower limit	-40 °C	
Service temperature, upper limit	150 °C	
Specific resistance, DIN EN 62361-3-1, based on standard, Klüber method: PN 036 / equipment: distance between electrodes 1 cm / quantity 1 cm ³	≤ 10000 Ωcm	
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	
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 19 mm ² /s	
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 150 mm²/s	
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree	
Oil separation, ASTM D6184, based on standard, 30 h, 150°C	≤ 10 % by weight	
Oil separation, DIN 51817 N, 168 h, 40°C	≤ 4 % by weight	
FAG FE8 rolling bearing test, DIN 51819-2, C-75 / 50-room temperature, 500 h, wear of cage	e approx. 12 mg	
FAG FE8 rolling bearing test, DIN 51819-2, C-75 / 50-room temperature, 500 h, wear of rolling approx. 34 mg elements		
FAG FE9 rolling bearing test, DIN 51821-2, 1500 / 6000-150, service life F50	≥ 100 h	
Shell roll stability, ASTM D1831, based on standard, 50 h, 130°C, penetration difference	≤ +50 0.1 mm	
Speed factor (n x dm)	1000000 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 unopene original container, approx.	ed 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 90 years.

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

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.

Publisher and Copyright: Klüber Lubrication München GmbH & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München GmbH & Co. KG and if source is indicated and voucher copy is forwarded.