

Klüberplex BEM 41-141

Lubricant for rolling and plain bearings subject to high loads



Your benefits at a glance

- **Trouble-free operation due to wide service temperature with good pumpability and metering via centralised lubrication systems**
- **Longer service life of rolling bearings due to good wear protection characteristics also under vibration conditions**
- **Higher reliability of wind power stations due to good grease distribution and oil separation**
- **Low frictional resistance and reduced component temperature**
- **Reduced wear due to excellent lubricity**
- **Easy changeover to Klüberplex BEM 41-141 as the lubricant is miscible with other greases**

Your requirements - our solution

Klüberplex BEM 41-141 offers good pressure and wear resistance and does not contain any inorganic solid lubricants like MoS₂ or graphite.

Due to its good compatibility with commercial sealing materials, the grease can be used for a wide range of applications.

Application

Klüberplex BEM 41-141 has been especially designed for rolling bearings in wind turbines.

The lubricant can be used for the initial lubrication and relubrication of rotor, generator and pitch bearings in wind power stations.

Klüberplex BEM 41-141 can also be used for constant velocity joints in lateral and longitudinal shafts of vehicles as well as for highly loaded rolling and plain bearings subject to vibrations and oscillations.

Application notes

Klüberplex BEM 41-141 can be applied by means of brush, spatula, grease gun, grease metering gun, automatic low-quantity or standard metering systems, grease cartridge, and centralised lubrication systems. We recommend conducting a metering test in the original dosing device under practical operating conditions.

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	Klüberplex BEM 41-141
Cartridge 5 kg	+
Bucket 25 kg	+
Drum 170 kg	+

Product data	Klüberplex BEM 41-141
Article number	020320
Chemical composition, type of oil	mineral oil
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	special lithium soap
Lower service temperature	-40 °C / -40 °F
Upper service temperature	150 °C / 302 °F



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Product data	Klüberplex BEM 41-141
Colour space	yellow-green
Density at 20 °C	approx. 0.88 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	340 x 0.1 mm
NLGI grade, DIN 51818	1
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	2 000 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	4 000 mPas
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 130 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 14 mm ² /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Flow pressure of lubricating greases, DIN 51805-2, test temperature: -35 °C	<= 1 400 mbar
Drop point, DIN ISO 2176, IP 396	>= 250 °C
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.

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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