Product information

Klüberplex BEM 41-132

High-temperature and long-term grease for rolling bearings

Benefits for your application

- **Longer service life due to special wear additives for roller bearings**
- **Less maintenance**
- **Versatile grease due to wide operating temperature range and optimised oil release**

Description

Klüberplex BEM 41-132 is based on synthetic hydrocarbon oil, mineral oil and a special lithium soap. Special additives ensure optimum oxidation resistance as well as protection against wear and corrosion.

Application

Klüberplex BEM 41-132 can be used **for long-term or lifetime lubrication of rolling bearings** at operating temperatures between 70 and 110 °C.

For rolling bearings with a high degree of sliding friction, *e.g.*

– tapered roller bearings
– cylinder roller bearings
– spherical roller bearings

or

for-life lubricated deep groove ball bearings

and

rolling bearings e.g. in

– paper-making machines (dry section)
– textile machines (dry section)
– electric motors
– hot air blowers
– drying ovens
– air separators in the base materials industry
– generators in wind power plants

or

rolling bearings in vehicle components

– clutch bearings
– generator bearings
– water pump bearings
– fluid fan bearings

Application notes

Klüberplex BEM 41-132 is applied by means of spatula, brush or grease gun. For application via automatic lubricating systems, pumpability should be checked beforehand. Prior to series application we recommend testing the compatibility of the lubricant with the materials in contact.

Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

400 g cartridge
1 kg can
25 kg bucket

Material safety data sheets

Material safety data sheets can be downloaded or requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

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Product data	Klüberplex BEM 41-132
Lubricating greases K; DIN 51825 in combination with DIN 51502	KPHC2N-30L
Base oil / thickener	synthetic hydrocarbon oil, mineral oil / lithium special soap
Service temperature range*, [°C]	–40 to 150
Colour	yellow
Density, at 20 °C, [g/cm^3], approx.	0.9
Worked penetration, DIN ISO 2137, at 25 °C; [0.1 mm]	265 to 295
Apparent dynamic viscosity, Klüber viscosity grade***	L/M
Base oil viscosity, DIN 51 562 pt. 01 at 40 °C, [mm^2/s], approx. at 100 °C, [mm^2/s], approx.	 120 14
Copper corrosion, DIN 51811, (lubricating grease), 24 h/120 °C, corrosion degree	1 - 120
Anticorrosive behaviour (Emcor test), DIN 51 802, 1 week, distilled water, corrosion degree	≤ 1
Oil separation, DIN 51817 N, 7d/40 °C [weight %]	≤ 4
Oil separation, FTMS 791 C 321 (approximation), after 30h/150 °C ;[weight %]	≤ 8
Low-temperature torque acc. to IP 186 at -40 °C Starting torque, [N/mm] Running torque, [N/mm]	 <1000 <200
Drop point, DIN ISO 2176, [°C]	>250
Oxidation stability of lubricating greases, DIN 51808, 100h/99 °C, pressure drop [bar]	≤ 0.2
Roll stability acc. to Shell, ASTM-D 1831 (approximation), after 50h/100 °C, penetration difference [0.1 mm]	≤ +80
Speed factor** for deep groove ball bearings (n x dm), [mm x min–1]	1.000000
FAG-FE 9 test run, DIN 51 821 pt. 2, Fa = 1500 N, n = 6000 min–1, 150 °C, L10-/L50 runtime, [h]	>100

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, shear viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.
The **upper** temperature limit was defined in acc. with DIN 51825 and DIN 51 821/2. The **lower** temperature limit was defined in acc. with IP 186/85.

** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

*** Klüber viscosity grades: EL = extra light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra heavy lubricating grease

Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

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