

Klüberplex BM 21-322 US

Lubricating grease for aggressive environments

Benefits for your application

- Extended component life due to excellent corrosion and wear protection in humid and aggressive environments
 - Excellent resistance to water and water vapor, as well as diluted alkaline and acidic solutions
 - Good sealing characteristics in aggressive media
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Application

Klüberplex BM 21-322 US has been especially designed for the lubrication of low and moderate speed rolling and plain bearings subject to humidity, water vapor and aggressive media. It may also be used as a sealing grease for valves and fittings.

Application notes

Klüberplex BM 21-322 US may be applied by spatula, brush, or grease gun.

If automatic lubrication systems are to be used, please check pumpability beforehand or contact your local Klüber representative.

Minimum shelf life

The minimum shelf life is approx. 60 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

400 g cartridge
25 kg pail
50 kg keg
180 kg drum

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.



Klüberplex BM 21-322 US

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Product data	Klüberplex BM 21-322 US
Base oil	mineral oil
Thickener	barium complex soap
Color	beige, light brown
Density at 20°C (g/cm ³)	approx. 0.98
Service temperature range*, (°C)	-20 to 140
Base oil viscosity, ASTM D 446 and D 2270 at 40°C, mm ² /s at 100°C, mm ² /s	approx. 320 approx. 21
Water resistance, ASTM D 1264	Pass
Copper corrosion 3 h at 100°C (rating), ASTM D 4048	1a
Copper corrosion 24 h at 100°C (rating), ASTM D 4048	1a
Corrosion resistance 48 h at 52°C, ASTM D 1743	Pass
Flow pressure at -20°C (mbar), DIN 51805	≤ 1400
Worked penetration (0.1 mm), ASTM D 217	255 – 285
SKF-Emcor test, 1 week, distilled water, ASTM 6138 corrosion rating	0 (no rust)
Evaporation, 22 h at 140°C (% loss), ASTM D 972	< 2
Oil separation, 24 h at 100°C (%), FTMS 791 C321.3	< 2
Water wash-out, 1 h at 38°C (%), ASTM D 1264	< 5
4 Ball wear scar, 40 kgf, 60 seconds, 1200 rpm at 75°C, (mm) ASTM D 2266	approx. 0.4
4 Ball weld load (N), ASTM D 2596	≥ 3000
Drop point (°C), ASTM D 2265	≥ 220

* service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic 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.

Lubrication is our world

Klüber Lubrication offers more than 2000 different products to choose from, and the right lubricant for your application is certainly among them. You can contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

Klüber Lubrication North America L.P. ~ 32 Industrial Drive ~ Londonderry, NH 03053, USA, ~ Phone 800.447.2238 ~ Fax 603.647.4105.

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