



MOLYKOTE® BG-20 Synthetic Bearing Grease

High-performance grease for metal/metal combinations involving rapid movements and medium to heavy loadings

Features & benefits

- Contains no lead or nickel
- High load-carrying capacity
- Suitable for long-term lubrication by virtue of low oil evaporation and low tendency towards oxidation
- Wide service-temperature range (-45°C to 180°C; for short periods up to +200°C)
- Suitable for very high rotational speeds (DN value 750,000)
- No intentional polytetrafluoroethylene (PTFE) or other per- and polyfluoroalkyl substances (PFAS)

Composition

- Ester oil
- Lithium complex thickener
- EW/AW additive
- Oxidation inhibitor

Applications

Suitable for lubrication points with medium to heavy loadings and high to very high speeds, particularly when they are also exposed to high temperatures. Could be used on clutch release bearings, blower and calender-roller bearings and electric motor bearings.

Description

MOLYKOTE® BG-20 Synthetic Bearing Grease is an NLGI 2-3, lithium-complex-thickened polyolester-based grease for use in high speed bearings operating across a wide range of temperatures.

How to use

Clean points of contact. Apply in same way as lubricating greases, using brush, spatula, grease gun or automatic lubricating device. Suitable for delivery by central lubricating system.

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard ⁽¹⁾	Test	Unit	Result
	Color		Beige
Consistency, density, viscosity			
ISO 2137	Unworked penetration	mm/10	240-270
ISO 2811	Density at 20°C	g/ml	1.01
DIN 51 562	Base oil viscosity at 40°C	mm ² /s	55
Temperature			
	Service temperature	°C	-45 to +180 up to +200 for short periods
ISO 2176	Drop point	°C	>295
ASTM D1478-07	Low-temperature torque test at -20°C		
	Initial break-away torque	Nm	96x10 ⁻³
	Torque after 60 minutes running time	Nm	21x10 ⁻³
ASTM D1478-07	Low-temperature torque test at -50°C		
	Initial break-away torque	Nm	1,004x10 ⁻³
	Torque after 60 minutes running time	Nm	313x10 ⁻³

⁽¹⁾ISO: International Standardization Organization. DIN: Deutsche Industrie Norm. ASTM: American Society for Testing and Materials.

Continued on next page

Typical properties (continued)

Standard ⁽¹⁾	Test	Unit	Result
Load-carrying capacity, wear protection, service life			
	Four-ball tester (VKA)		
DIN 51 350 pt.4	Weld load	N	2,400
DIN 51 350 pt.5	Wear scar under 800 N load	mm	1.0
	Almen-Wieland machine		
	OK load	N	20,000
	Frictional force with OK load	N	2,250
DIN 51 82102A	FAG rolling element bearing tested FE9, 1,500/6,000/160°C, average value	h	662
Speed			
	DN value ⁽²⁾	mm/min	750,000
Corrosion protection			
DIN 51 802	SKF-Emcor Method		
	Degree of corrosion		1-2
Oil separation			
DIN 51 817	Standard test	%	1.2

⁽¹⁾ISO: International Standardization Organization. DIN: Deutsche Industrie Norm. ASTM: American Society for Testing and Materials.

⁽²⁾DN values are calculated approximations and will vary widely with temperature, load and bearing type.

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Usable life and storage

When stored at or below 20°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted.
© 1997-2024 DuPont.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

Packaging

This product is available in different standard container sizes as shown on molykote.com. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.