

# 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)

## 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	Test	Unit	Result
	Color		Beige
<b>Consistency, density, viscosity</b>			
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 <sup>2</sup> /s	55
<b>Temperature</b>			
	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	96 x 10 <sup>-3</sup>
	Torque after 60 minutes running time	Nm	21 x 10 <sup>-3</sup>
ASTM D1478-07	Low temperature torque test at -50°C		
	Initial break-away torque	Nm	1,004 x 10 <sup>-3</sup>
	Torque after 60 minutes running time	Nm	313 x 10 <sup>-3</sup>

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

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## Typical properties (continued)

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Standard	Test	Unit	Result
<b>Load-carrying capacity, wear protection, service life</b>			
DIN 51 350 pt.4	Four-ball tester (VKA) weld load	N	2,400
DIN 51 350 pt.5	Wear scar under 800N 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
<b>Speed</b>			
	DN value <sup>(2)</sup>	mm/min	750,000
<b>Corrosion protection</b>			
DIN 51 802	SKF-Emcor Method		
	Degree of corrosion		1-2
<b>Oil separation</b>			
DIN 51 817	Standard test	%	1.2

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

<sup>(2)</sup>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.

## Packaging

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

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