

***Molykote*[®] BG-20 Synthetic Bearing Grease**

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

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

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 calendar-roller bearings and electric motor bearings.

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test	Property	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	1004x10 ⁻³
	Torque after 60 minutes running time	Nm	313x10 ⁻³
	Load-carrying capacity, wear protection, service life		
	Four-ball tester (VKA)		
DIN 51 350 pt.4	Weld load	N	2400
DIN 51 350 pt.5	Wear scar under 800N load	mm	1.0
	Almen-Wieland machine		
	OK load	N	20000
	Frictional force with OK load	N	2250
DIN 51 82102A	FAG rolling element bearing tested		
	FE9, 1500/6000/160°C, average value	h	662
	Speed		
	DN value ¹	mm/min	750000
	Corrosion protection		

TYPICAL PROPERTIES (continued)

DIN 51 802	SKF-Emcors Method Degree of corrosion		1-2
DIN 51 817	Oil separation Standard test	%	1.2

*ISO: International Standardisation Organisation.

DIN: Deutsche Industrie Norm.

ASTM: American Society for Testing and Materials.

¹DN values are calculated approximations and will vary widely with temperature, load and bearing type.

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

How to apply

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.

HANDLING

PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

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 INFORMATION

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

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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