

MOLYKOTE® BG 20

HIGH PERFORMANCE GREASE

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

FEATURES

- ◆ 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 800,000)

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.
- ◆ Used successfully on clutch release bearings, blower and calender-roller bearings and electric motor bearings.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact Dow Corning GmbH, Wiesbaden, Germany before writing specifications on this product.

Standard*	Test	Units	Result
	Colour		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-D147880	Low temperature torque test at -20°C		
	Initial break-away torque	Nm	207x10 ⁻³
	Torque after 20 minutes running time	Nm	130x10 ⁻³
ASTM-D147880	Low temperature torque test at -50°C		
	Initial break-away torque	Nm	530x10 ⁻³
	Torque after 20 minutes running time	Nm	130x10 ⁻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, average value	h	662
	Speed		
	DN value ¹	mm/min	750000

TYPICAL PROPERTIES (continued)

Standard*	Test	Units	Result
	Corrosion protection		
DIN 51 802	SKF-Emcors method Degree of corrosion		1-2
	Oil separation		
DIN 51 817	Standard test	%	1.2

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

* ASTM: American Society for Testing and Materials

ISO: International Standardisation Organisation

DIN: Deutsche Industrie Norm

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

A Product Safety Data Sheet should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or 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.

Dow Corning will guarantee the usable life of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4 digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

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

Dow Corning's Health, Environment and Regulatory Affairs (HERA) Department is available to support customers for their product safety needs. For further information, you can contact this group at:

Dow Corning Europe
HERA Department
Rue Général de Gaulle, 62
B-1310 La Hulpe
Belgium
TEL:
Int +32 (0)2 655 2523
Int +32 (0)2 655 2304
FAX:
Int +32 (0)2 655 2013

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**UNITED KINGDOM, NORDIC COUNTRIES,
BENELUX, SOUTH AFRICA, EIRE & MIDDLE EAST**

Dow Corning
UNITED KINGDOM
Tel: INT + 44 (0)1 676 52 80 00
Fax: INT + 44 (0)1 676 52 80 01

POLAND

Dow Corning Polska Sp. zo.o.
Tel: INT + 48 (0)22 645 14 45
Fax: INT + 48 (0)22 645 14 40

**AUSTRIA, GERMANY, SWITZERLAND &
EASTERN EUROPE**

Dow Corning GmbH
GERMANY
Tel: INT + 49 (0)611 - 23 71
Fax: INT + 49 (0)611 - 237 610

SPAIN & PORTUGAL

Dow Corning Ibérica S.A.
SPAIN
Tel: INT + 34 (0)93 - 405 12 15
Fax: INT + 34 (0)93 - 405 38 94

**ITALY & EASTERN MEDITERRANEAN
COUNTRIES**

Dow Corning S.p.A.
ITALY
Tel: INT + 39 039 - 60 711
Fax: INT + 39 039 - 68 99 660

FRANCE & NORTH AFRICA

Dow Corning France S.A.
FRANCE
Tel: INT + 33 (0)4 72 84 13 60
Fax: INT + 33 (0)4 72 84 13 79

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