

MOLYKOTE® BG 87

HIGH PERFORMANCE GREASE

Lubricating grease for metal/metal and metal/plastic combinations with slow to medium fast movements and extremely high loads

FEATURES

- ◆ Suitable for long-term lubrication
- ◆ High loading capacity
- ◆ No drop point
- ◆ Can be used over a wide temperature range (-35 to +250, and up to +280°C for a brief period)
- ◆ Highly resistant to water
- ◆ Resistant to many chemicals
- ◆ Good protection against corrosion (corrosion index 0-1 when tested using the SKF-Emcor method)
- ◆ Compatible with many plastics and elastomers

COMPOSITION

- ◆ Perfluorinated polyether
- ◆ PTFE thickener
- ◆ Temperature resistant corrosion inhibitor

APPLICATION

- ◆ Used successfully, for example, for sliding and roller bearings in refrigeration plants, in pump and fan bearings, and also for charging equipment in the chemical and petrochemical industry.

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		White
	Consistency, density, viscosity		
DIN 51 818	NLGI consistency class		2
ISO 2137	Worked penetration	mm/10	265-295
ISO 2811	Density at 20°C	g/ml	1.96
DIN 51 562	Base oil viscosity at 25°C	mm ² /s	1500
	Temperature		
	Service temperature	°C	-35 to +250
ISO 2176	Drop point	°C	None
ASTMD147880	Low temperature torque test at -20°C		
	Initial break-away torque	Nm	195x10 ⁻³
	Torque after 20 minutes running time	Nm	71x10 ⁻³
ASTM-D147880	Low temperature torque test at -30°C		
	Initial break-away torque	Nm	1360x10 ⁻³
	Torque after 20 minutes running time	Nm	500x10 ⁻³
	Load-carrying capacity, wear protection, service life		
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	4800
DIN 51 350 pt.5	Wear scar under 400N load	mm	1.7
DIN 51 350 pt.5	Wear scar under 1200N load	mm	2.0
	Almen-Wieland machine		
	OK load	N	13000
	Frictional force with OK load	N	3500
	Resistance		
DIN 51 807 pt.1	Water resistance, static evaluation step		0-90
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.02

TYPICAL PROPERTIES (continued)

Standard*	Test	Units	Result
	Corrosion protection		
DIN 51 802	SKF-Emcors method Degree of corrosion		0
	Oil separation		
DIN 51 817	Standard test	%	1.7

* ASTM: American Society for Testing and Materials
ISO: International Standardisation Organisation
DIN: Deutsche Industrie Norm

HOW TO USE

How to apply

Clean the contact areas. As is usual with lubricating greases, apply by means of a brush, spatula, grease-gun or automatic lubrication device. Do not mix with other greases. If plastics or elastomers are present, compatibility tests for swelling and shrinkage, stress-crack formation, changes in strength and hardness, should be carried out.

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:

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