

Specialty Lubricants

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°C to +250°C (-31°F to +482°F), and up to +280°C (536°F) 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

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

Standard*	Test	Unit	Result
	Color		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 (68°F)	g/ml	1.96
DIN 51 562	Base oil viscosity at 25°C (77°F)	mm ² /s	1500
	Temperature		
	Service temperature	°C	-35 to +250 (+280 for short periods)
		°F	-31 to +482 (+536 for short periods)
ISO 2176	Drop point	°C	None
		°F	None
ASTMD147880	Low temperature torque test at -20°C (-4°F)		
	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 (-22°F)		
	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 (210°F)	bar	0.02

TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
	Corrosion protection		
DIN 51 802	SKF-Emcor 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

Product safety information required for safe use is not included. Before handling, read product and 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 www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

USABLE LIFE AND STORAGE

When stored at or below 20°C (68°F) 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 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, www.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 Dow Corning's 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.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

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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