

Specialty Lubricants

MOLYKOTE® FB 180 High Performance Grease

High performance grease for metal/metal combinations involving slow to medium-fast movements and light to heavy loadings, particularly at high temperatures

FEATURES

- Contains no lead or nickel
- Suitable for long-term lubrication due to low oil evaporation and low tendency towards oxidation
- Emergency running properties and reduction of wear by virtue of incorporated solid lubricants
- No drop point: consequently no melting or run-out from lubrication point
- Good water washout resistance

COMPOSITION

- Mineral oil
- Inorganic thickener
- Corrosion inhibitors
- Solid lubricants

APPLICATIONS

- Suitable for lubrication points with light to heavy loadings and low to medium speeds, particularly those exposed to continuous high temperatures.
- Used successfully on plain and roller bearings of conveyor installations in drying kilns, vulcanizing plants, heating installations, fans and electric motors.

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		Black
	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	0.86
DIN 51 562	Base oil viscosity at 40°C (104°F) ¹	mm ² /s	260
	Temperature		
	Service temperature	°C	-30 to +160, +180 for short periods
		°F	-22 to +320, +356 for short periods
ISO 2176	Drop point	°C/°F	None
ASTM-D147880	Low temperature torque test at -20°C (-4°F)		
	Initial break-away torque	Nm	593x10 ⁻³
	Torque after 20 minutes running time	Nm	68x10 ⁻³
	Load-carrying capacity, wear protection, service life		
	Four-ball tester (VKA)		
DIN 51 350 pt.4	Weld load	N	2200
DIN 51 350 pt.5	Wear scar under 800N load	mm	1.3
	Almen-Wieland machine		
	OK load	N	20000
	Frictional force with OK load	N	3085
	Corrosion protection		
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0-1

TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
	Oil separation		
DIN 51 817	Standard test	%	2.0

1. Calculated viscosity value of base oil mixture.

* 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. Do not mix with other greases.

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.

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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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