

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

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		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	g/ml	0.86
DIN 51 562	Base oil viscosity at 40°C ¹	mm ² /s	260
	Temperature		
	Service temperature	°C	-30 to +160, +180 for short periods
ISO 2176	Drop point	°C	None
ASTM-D147880	Low temperature torque test at -20°C		
	Initial break-away torque	Nm	593.10 ⁻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
	Friction force	N	3085
	Corrosion protection		
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0-1

TYPICAL PROPERTIES (continued)

Standard*	Test	Units	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

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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