

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.

How to use

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 IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Typical properties

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

Standard ⁽¹⁾	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) ⁽²⁾	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	2,200
DIN 51 350 pt.5	Wear scar under 800 N load	mm	1.3

⁽¹⁾DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.

⁽²⁾Calculated viscosity value of base oil mixture.

Continued on next page.

Typical properties (continued)

Standard ⁽¹⁾	Test	Unit	Result
	Almen-Wieland machine		
	OK load	N	20,000
	Frictional force with OK load	N	3,085
Corrosion protection			
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0-1
Oil separation			
DIN 51 817	Standard test	%	2.0

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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 MOLYKOTE® sales office or MOLYKOTE® distributor.

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