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MOLYKOTE® Longterm 2 Plus Extreme Pressure Bearing Grease

Lubricating grease for metal/metal combinations with slow to medium-fast movements, especially with high loads

Features & benefits

- High load-carrying capacity
- Suitable for long-term lubrication
- In mixed friction, it provides wear protection due to solid lubricants and EP (extreme pressure) additives
- Good adhesion strength
- Good protection against corrosion
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Mineral oil
- Lithium soap
- Solid lubricants
- EP additive
- Corrosion inhibitor
- Adhesion improver

Applications

MOLYKOTE® Longterm 2 Plus Extreme Pressure Bearing Grease is used successfully for bearings, spline profiles and clutches in highly stressed motor vehicles, tractors, cranes, earth-moving machines, conveyor belts and forklift trucks. It is also used successfully where there is a risk of fretting corrosion, groove formation (Brinell effect) or moisture.

How to use

Clean points of contact. As is usual with lubricating greases, apply by means of a brush, spatula, or automatic lubrication device. Can be used in central lubrication systems.

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	g/ml	0.9
DIN 51 562	Base oil viscosity at 40°C[2]	mm^2/s	265
Temperature			
	Service temperature	°C	-25 to +110 (short period +130)
ISO 2176	Drop point	°C	≥ 175
ASTM D1478 80	Low temperature torque test at -20°C		
	Initial breakaway torque	Nm	420×10^{-3}
	Torque after 20 minutes running time	Nm	35×10^{-3}
Loading capacity, wear protection, service life			
	Four-ball tester		
DIN 51 350 T.4	Weld load	N	3,800
DIN 51 350 T.5	Wear scar under 800 N load	mm	1.0

[1]DIN: Deutsche Industrie Norm. ISO: International Standardization Organization ASTM: American Society for Testing and Materials
[2]Calculated viscosity value of base oil mixture.

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Typical properties (continued)

Standard[1]	Test	Unit	Result
	Almen-Wieland machine OK load	N	20,000
	Frictional force with OK load	N	3,200
DIN 51 82102A	FAG roller element bearing tester FE 9, 4500/6000-110, F50	h	100
Speed			
	DN value	mm/min	250,000
Resistance			
DIN 51 808	Oxidation resistance, pressure drop 100 h, 99°C	bar	0.3
Corrosion protection			
DIN 51 802	SKF-Emcor method Degree of corrosion		0-1
Oil separation			
DIN 51 817	Standard test	%	1.7

[1]DIN: Deutsche Industrie Norm. ISO: International Standardization Organization ASTM: American Society for Testing and Materials
[2]Calculated viscosity value of base oil mixture

Usable life and storage

When stored between 0°C and 40°C 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 as shown on **molykote.com**. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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