

MOLYKOTE® Longterm 1 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

Composition

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

Applications

MOLYKOTE® Longterm 1 Plus Extreme Pressure Bearing Grease is used successfully for journal bearings in sugar mills.

Note: Suitable for use where there is no possibility of food contact.

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.

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.

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.

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Standard ⁽¹⁾	Test	Unit	Result	
-	Color		Black	
Consistency, density, viscosity				
DIN 51 818	NLGI consistency class		1	
ISO 2137	Worked penetration	mm/10	310-340	
ISO 2811	Density at 20°C	g/ml	0.9	
DIN 51 562	Base oil viscosity at $40^{\circ}\text{C}^{(2)}$	mm²/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	478x10 ⁻³	
	Torque after 20 minutes running time	Nm	41x10 ⁻³	
Loading capacity, wear protection, service life				
	Four-ball tester			
DIN 51 350 T.4	Weld load	N	2,400	
DIN 51 350 T.5	Wear scar under 800 N load	mm	0.98	
	Almen-Wieland machine OK load	N	20,000	
	Frictional force with OK load	N	1,700	
DIN 51 82102A	FAG roller element bearing tester FE 9, 4500/6000-110, F50	hour	95	

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

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⁽²⁾Calculated viscosity value of base oil mixture.

Typical properties (continued)

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Test	Unit	Result		
DN value	mm/min	250,000		
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Oxidation resistance, pressure drop 100 h, 99°C	bar	0.22		
Corrosion protection				
SKF-Emcor method Degree of corrosion		0-0		
Oil separation				
Standard test	%	6.33		
	DN value Oxidation resistance, pressure drop 100 h, 99°C otection SKF-Emcor method Degree of corrosion	Test Unit DN value mm/min Oxidation resistance, pressure drop 100 h, 99°C otection SKF-Emcor method Degree of corrosion n		

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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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