MOLYKOTE® Longterm W 2 High Performance Grease

White lubricating grease for metal/metal combinations with slow to fast movements and medium loads

Features

- Good load-carrying capacity
- Suitable for long-term lubrication since it has no tendency to oxidize
- Wear protection through solid lubricants
- Good adhesion strength due to incorporated adhesion improver
- Good corrosion protection (corrosion step 0-1 in the SKF-Emcor test)
- Prevents the formation of frictional corrosion

Composition

- Mineral oil
- Lithium soap
- Solid lubricants
- Adhesion improver

Applications

Used successfully for bearings in machinery used in the food and pharmaceutical industries, textile and papermaking machines, domestic appliances, and mechanical precision instruments.

How to use

Clean the contact areas. Apply with brush, spatula, grease gun or automatic lubricating 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 at or below 20°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.

Standard[1]	Test	Unit	Result
	Color		White
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	mm²/s	125
Temperature			
	Service temperature	°C	-30 to 110 +130 for short periods
ISO 2176	Drop point	°C	>=180
ASTM D1478-80	Low-temperature torque test at -20°C		
	Initial breakaway torque	Nm	$125x10^{-3}$
	Torque after 20 minutes running time	Nm	$44x10^{-3}$
Load-carrying capacity, wear protection, service life			
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	2,400
DIN 51 350 pt.5	Wear scar under 800 N load	mm	1.4
DIN 51821-02-A	FAG roller element bearing tester FE 9, 1,500/6,000-110, F‡}	h	155

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

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Typical properties (continued)

Standard[1]	Test	Unit	Result
Speed			
	DN value[2]	mm/min	450,000
Corrosion protection			
DIN 51 802	SKF-Emcor method Degree of corrosion		0-1
Oil separation - evaporation			
	Oil bleeding, 24 h, 100°C	%	3.3
	Oil evaporation, 24 h, 100°C	%	0.5

[1]DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.
[2]DN values are calculated approximations and will vary widely with temperature, load and bearing type.

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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