MOLYKOTE® Longterm 00 Fluid Grease

Fluid grease for the lubrication of highly stressed transmissions with metal gears

Features

- Extremely high load-bearing capacity
- Resistant to galling through mixed friction.
- Wear protection due to solid lubricants and extreme pressure (EP) additives
- Extremely adhesive due to incorporated adhesion improver
- Good protection against corrosion
- Contains no lead or nickel

Composition

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

Applications

Closed gears that are subjected to high stresses, frictional corrosion and moisture. Used successfully for highly stressed gears that are subjected to high stresses, frictional corrosion and moisture.

How to use

Clean contact surfaces. Apply in the normal way using a brush, grease gun or automatic lubricating system. Can be used in centralized lubrication systems. 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.

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.

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	Consistency class, NLGI[2]		00
ISO 2137	Worked penetration	mm/10	400-430
ISO 2811	Density at 20°C (68°F)	g/ml	0.93
DIN 51 562	Base oil viscosity at 40°C (104°F)[3]	mm^2/s	300
Temperature			
	Service temperature	°C	-40 to +110
		°F	-40 to +230
ISO 2176	Drop point	°C	190
		°F	374
ASTM D147880	Low-temperature torque test at -30°C (-22°F)		
	Initial break-away torque	Nm	$1{,}120 \times 10^{-3}$
	Torque after 20 minutes running time	Nm	220×10^{-3}
DIN 51 805	Kesternich method - flow pressure at -40°C (-40°F)	mbar	340
Loading capacity, protection against wear, service life			
	Four-ball tester		
DIN 51 350 T.4	Weld load	N	3,400
DIN 51 350 T.5	Wear scar under 800 N load	mm	0.9
	Almen-Wieland machine		
	OK load	N	12,000

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

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Typical properties (continued)

Standard[1]	Test	Unit	Result
Resistance			
DIN 51 807 T.1	Water resistance, static evaluation step		1-90
DIN 51 808	Oxidation resistance, pressure drop 100 h, 99°C (210°F)	bar	0.3
Corrosion protection			
DIN 51 802	SKF-Emcor method		
	Degree of corrosion, sea water		1

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

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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