MOLYKOTE® 33 Medium Extreme Low Temperature Grease

Grease for use under a wide range of temperature conditions for light-load applications where there is metal-to-metal or metal-to-plastic friction at low to high speeds

Features

- Superior oxidation resistance
- Wide service-temperature range (-73°C to 180°C)
- Superior low-temperature characteristics
- Compatible with most plastics
- Water-resistant

Composition

- Silicone oil
- Lithium soap

Applications

Ideal for use in roller and conveyer equipment, control cables, electric motors, photographic equipment, optical equipment, measurement equipment, etc. Is also used in refrigerators or freezer equipment.

How to use

Clean points of application. As is usual with lubricating greases, apply or fill by means of a brush, spatula, or automatic lubrication device.

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, MOLYKOTE® 33 Medium Extreme Low Temperature Grease 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 51 562	Kinematic base oil viscosity at 25°C	mm^2/s	100
ISO 2137	Worked Penetration	mm/10	260 – 300
	NLGI class		Appr. 2
ISO 2811	Density at 25°C	g/cm^3	0.98
Temperature Range			
	Service temperature range	°C	-73 to 180
ASTM D1478-80	Low-temperature torque test at -73°C		
	Initial breakaway torque	Nm	207×10^{-3}
	Torque after 20 min running time	Nm	32×10^{-3}
Oil Separation			
ASTM D 6184	Bleed (150°C / 24 h)	%	≤ 4.5
ASTM D 6184	Evaporation (150°C / 24 h)	%	≤ 3.5
DIN 51817	Oil Separation (40°C / 7 days)	%	0.9
Oxidation resistance			
DIN 51808	Oxidation resistance, (100 h, 99°C), pressure loss	mbar	100
Load-carrying capacity			
DIN 51350 pt. 4	Four-ball weld load (1,500 rpm / 1 min)	N	1,400
	Maximum Dn value	mm/min	200,000

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

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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