

MOLYKOTE® M-77 Solid Lubricant Paste

Solid lubricant paste with silicone carrier oil

Features & benefits

- Paste lubrication up to +230°C (+446°F); dry lubrication up to +400°C (+662°F)
- Good water resistance
- Good volatilization properties
- Compatible with many types of elastomers and plastics (test for compatibility)

Composition

- Polyphenylmethyl siloxane oil
- Lithium soap
- Molybdenum disulfide

Applications

Suitable for lubrication points with low to moderate loads and low speeds that are subjected to water and extreme temperatures; at temperatures above 230°C (446°F), the carrier volatilizes leaving virtually no residue, and the remaining dry sliding film itself takes over the lubrication up to +400°C (+662°F). Suitable for lubricating parts consisting of materials that are not resistant to mineral oils. Used successfully on metal/metal combinations with frictional and contact surfaces, brake anchor plates and the brake pistons of disc brakes.

How to use

Clean the contact areas and apply with brush, spatula, grease gun or automatic lubricating device. Can be used in central lubricating 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 (68°F) in the original unopened containers, this product has a usable life of 36 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-gray
Penetration, density, viscosity			
ISO 2137	Unworked penetration	mm/10	280-330
ISO 2811	Density at 20°C (68°F)	g/ml	1.95
DIN 51 562	Base oil viscosity at 25°C (77°F)	mm ² /s	125
Temperature			
	Service temperature ⁽²⁾	°C	-45 to +230 (paste-like) up to +400 (dry)
	Service temperature ⁽²⁾	°F	-49 to +446 (paste-like) up to +662 (dry)
Load-carrying capacity, wear protection, service life			
Four-ball tester			
DIN 51 350 pt.4	Weld load	N	2,000

⁽¹⁾ ISO: International Standardization Organization. DIN: Deutsche Industrie Norm.

⁽²⁾ Temperature resistance of solid lubricants.

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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