

# **Molykote<sup>®</sup> M-77 Solid Lubricant Paste**

## **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 disulphide

Solid lubricant paste with silicone carrier oil

## **APPLICATIONS**

*Molykote<sup>®</sup> M-77 Solid Lubricant Paste* is:

- Suitable for lubrication points with low to moderate loads and low speeds which 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.

## **TYPICAL PROPERTIES**

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

<b>Test*</b>	<b>Property</b>	<b>Unit</b>	<b>Result</b>
	Color		Black-grey
	<b>Penetration, density, viscosity</b>		
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 <sup>2</sup> /s	125
	<b>Temperature</b>		
	Service temperature <sup>1</sup>	°C	-45 to +230 (paste-like) up to +400 (dry)
	Service temperature <sup>1</sup>	°F	-49 to +446 (paste-like) up to +662 (dry)
	<b>Load-carrying capacity, wear protection, service life</b>		
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	2000

\*ISO: International Standardisation Organisation.

DIN: Deutsche Industrie Norm.

<sup>1</sup>Temperature resistance of solid lubricants.

## **HOW TO USE**

### **How to apply**

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 PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.**

**THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.**

## **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.

## **PACKAGING INFORMATION**

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest Dow Corning sales office or Dow Corning distributor.

## **LIMITATIONS**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## **HEALTH AND ENVIRONMENTAL INFORMATION**

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [dowcorning.com](http://dowcorning.com) or consult your local Dow Corning representative.

## **LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY**

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to

ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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