



TBP Converting, Inc.
Dow MOLYKOTE PDS



Molykote[®] 1000 Solid Lubricant Paste

FEATURES & BENEFITS

- Can be used over a wide range of temperature (-30°C/-22°F to +650°C/1202°F)
- High load-carrying capacity
- Enables non-destructive dismantling, even after long use at high temperatures
- Coefficient of friction unchanged in the area of oiled bolts, even after several bolt re-tightening and loosening processes
- Good corrosion protection

COMPOSITION

- Solid lubricants
- Mineral oil
- Thickener
- Powdered metal

Solid lubricant paste for bolted metal joints; contains no lead or nickel

APPLICATIONS

- Suitable for bolted joints that are subjected to high temperatures up to 650°C (1202°F) and to corrosive effects, and which, after assembling and the initial operation, have to be re-tightened or disconnected. In order to ensure constant pre-stressing forces, uniform and steady coefficients of friction of the lubricant are necessary.
- Used successfully for cylinder head bolts, nozzle head screws of plastic injection molding machines, bolted joints in the chemical industry, and also for the tension rings of centrifuges.

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.

Test ⁴	Property	Unit	Result
	Color		Brown
	Penetration, density		
ISO 2137	Unworked penetration	mm/10	280 - 310
ISO 2811	Density at 20°C (68°F)	g/ml	1.26
	Temperature		
	Service temperature range ¹	°C	-30 to +650
		°F	-22 to +1202
	Load-carrying capacity, wear protection, service life		
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	4800
DIN 51 350 pt.5	Wear scar under 400N load	mm	0.65
	Almen-Wieland machine		
	OK load	N	20000
	Frictional force	N	2600
	Coefficient of friction		
	Screw test - μ thread ²		0.13
	Screw test - μ head		0.08
	Initial break-away torque ³	Nm	135
DIN 51 802	SKF-Emcor method		1

⁴ISO: International Standardisation Organisation.

DIN: Deutsche Industrie Norm.

¹Temperature resistance of solid lubricants.

²Coefficient of friction in bolted connection, M12, 8.8, on blackened surface.

³M 12, with starting torque Ma = 62Nm and heat treatment at 540°C (1004°F), 21h, bolt material: no. 1.7709.

DESCRIPTION

Molykote[®] 1000 Solid Lubricant Paste is a lead and nickel free anti-seize paste used to reduce wear and optimize friction of threaded fasteners, or other metal-to-metal joints, enabling non-destructive dismantling, even after long exposure to high temperatures. It offers good corrosion protection, under high loads, over a wide temperature range.

HOW TO USE

How to Apply

If possible, clean the thread and the bolt with a wire brush. Spread an adequate amount of the paste on the thread, right up to its root in order to obtain a good seal. In order not to alter the properties, the paste must not be mixed with grease or oils.

To enable this product to be applied more quickly and cleanly to larger areas, it is advisable to use the spray can.

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, *Molykote* 1000 Solid Lubricant Paste has a usable life of 60 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 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.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

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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