

MOLYKOTE® P 37 LUBRICANT PASTE

Extremely pure, solid lubricant paste for bolted joints. It contains no lead, nickel, sulphur, chlorine or fluorine

FEATURES

- ◆ Highly pure (less than 500mg of sulphur, less than 200mg of chlorine and fluorine per kg of lubricant)
- ◆ Can be used at temperatures up to 1400°C
- ◆ Coefficient of friction in the range of oiled bolts
- ◆ Low scatter of prestressing force on tightening
- ◆ Avoidance of stress cracks and solder brittleness
- ◆ Enables non-destructive loosening of bolted joints even after long use at high temperatures

SPECIFICATIONS

- ◆ Complies with Siemens TLV 9600 02/01

COMPOSITION

- ◆ Solid lubricants in practically sulphur free, partly synthetic oil
- ◆ Thickener
- ◆ Adhesion improver

APPLICATIONS

- ◆ Suitable for screws, nuts and bolts that are subjected to extremely high temperatures and which are made of heat-resistant or extremely heat resistant steels, eg those made from nickel-based alloys.
- ◆ Used successfully for the bolted joints of gas and steam turbines in power stations and nuclear power stations.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact Dow Corning GmbH, Wiesbaden, Germany before writing specifications on this product.

Standard	Test	Unit	Result
	Colour		Grey-Black
	Penetration, density		
ISO 2137	Unworked penetration	mm/10	280-310
ISO 2811	Density at 20°C	g/ml	1.2
	Temperature		
	Service temperature ¹	°C	-40 to 1400
	Load-carrying capacity, wear protection, service life		
DIN 51 350 T.4	Weld load	N	4400
DIN 51 350 T.5	Wear scar under 800N load	mm	1.7
	Coefficient of friction		
	Screw test - μ thread ²		0.15
	Screw test - μ head ²		0.09
	Initial break-away torque ³	Nm	126

1. Temperature resistance of solid lubricants.
2. Coefficient of friction in bolted connection, M12 x 1.75, material 8.8, blackened.
3. M 12 x 1.75, with starting torque Ma = 56 Nm and heat treatment at 540°C, 21 hours, bolt material: 21 Cr Mo Ni V 57 mat no. 1.7709.

HOW TO USE

How to apply

Clean the thread with solvent. Clean already used bolts with a wire brush. Spread an adequate amount of this product up to the root of the thread in order to obtain a good seal. For this purpose use the brush from the brush can, provided it has not been used previously for other purposes. Otherwise use a new brush.

HANDLING PRECAUTIONS

A Product Safety Data Sheet should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

USABLE LIFE AND STORAGE

When stored at or below 20°C in the original unopened containers this product has a usable life of 60 months from the date of production.

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Dow Corning will guarantee the usable life of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4 digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

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

Dow Corning's Health, Environment and Regulatory Affairs (HERA) Department is available to support customers for their product safety needs. For further information, you can contact this group at:

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