

Product Information Specialty Lubricants



DOW CORNING

Molykote[®] P-37 Paste

FEATURES & BENEFITS

- Compatible with high temperatures (1400°C)
- Excellent load-carrying capacity and seize protection
- Sulphur content of less than 250 ppm, with a total halogen content (including chlorine) of less than 200 ppm
- Low seepage, so it can be used in places wherein cleanliness is required
- Allows screws to be removed easily even after extended periods of use at high temperatures
- Does not include components that become brittle at high temperatures

SPECIFICATIONS

- Fulfills technical requirements of Siemens TLV 9600 02/01
- Fulfills technical requirements of General Electric TIL 1117-3RI
- Fulfills technical requirements of EDF-PMUC
- Fulfills technical requirements of Pratt & Whitney PWA-36246

COMPOSITION

- Mineral oil
- Special solid lubricants

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

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, e.g. those made from nickel-based alloys.
- Used successfully for the bolted joints of gas and steam turbines in power stations.

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 ¹	Property	Unit	Result
	Appearance		Gray black
ISO 2137	Unworked penetration	mm/10	280 to 310
ISO 2811	Density at 20°C	g/cm ³	1.21
	Service temperature ²	°C	-30 to 1400
	Total halogen content	ppm	200 (max)
	Sulphur content	ppm	250 (max)
DIN 51 350 T.4	Four ball weld load (1450 rpm 1 minute)	N	5,500
DIN 51 350 T.5	Four ball wear scar (1450 rpm, 800N, 1 hour)	mm	1.50
Coefficient of friction in bolted connection, M12 x 1.75, 8.8, blackened:			
	μ thread / μ head		0.11 / 0.11
Breakaway torque, M-12 bolts 21CrMoNiV57 1.7709, nuts and washers 21CrMo5 1.7258, 600°C for 21 hours:			
	Tightening Torque	Nm	49.4
	Breakaway Torque	Nm	120.9
Breakaway torque, Nimonic NiCr20TiAl bolts, nuts and washers 2.4952, 850°C for 4 weeks:			
	Tightening Torque	Nm	49.4
	Breakaway Torque	Nm	102.4

¹ISO: International Standardisation Organisation

DIN: Deutsche Industrie Norm

²Temperature resistance of solid lubricant

HOW TO USE

Clean and degrease the location of use before applying this product. Use a wire brush to remove any sludge or rust on the screws. Carefully apply the paste to fully coat the screws. Do not mix with other lubricants.

HANDLING

PRECAUTIONS

PRODUCT SAFETY

INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored between 0°C and 35°C in the original unopened containers, this product 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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

We help you invent the future.™

molykote.com