

MOLYKOTE® P-3700 anti-seize Paste

Preliminary data

High purity, solid lubricant paste for bolted joints, no intentional calcium, lead, nickel, sulfur, chlorine or fluorine

Features

- Applicable for high temperature (900°C) applications
- Provides controlled friction on assembly supporting exact tensioning
- Excellent anti-seize properties: Allows screws to be removed easily, even after long-term exposure at high temperatures
- High purity paste (impurity sulfur, calcium and total halogen content regularly monitored)
- Free of intentional calcium ingredients
- Suggested for alloys with high chromium content and stainless steel

Composition

- Mineral oil
- Special solid lubricants

Applications

Can be suitable for screws, nuts and bolts found in industrial equipment exposed to elevated temperatures.

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

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
	Appearance		Dark grey
Consistency, density			
ISO 2137	Unworked penetration	mm/10	280 - 320
ISO 2811	Density at 20°C	g/cm ³	1.23
Temperature			
	Service temperature range ⁽²⁾	°C	-30 to +900
Loading capacity, protection against wear, service life			
DIN 51350 T.4	4-ball weld load	N	3000
DIN 51350 T.5	4-ball wear scar under 400N load	mm	1.1
Coefficient of Friction & Threaded Connections			
Internal	Screw Test: Schatz Tester		
	M12 x 1.75 mm, 8.8, blackened surface		
	μ thread (avg.)		0.10
	μ head (avg.)		0.10
	K-factor (avg.)		0.14
	M12 x 1.75 mm, A2-70, 1.4301, blank		
	μ thread (avg.)		0.11
	μ head (avg.)		0.09
	K-factor (avg.)		0.14
Internal	Initial breakaway torque after 540°C / 21 h on 1.7709, M12, blackened (start torque = 56 Nm)	Nm	~120

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

(2) Temperature resistance of solid lubricants

Usable life and storage

When stored between 0°C and 35°C in the original unopened containers, this product has a usable life of 36 months from the date of production.

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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