

# MOLYKOTE® P-3700 Anti-Seize Paste

High-purity solid lubricant paste for bolted joints used in high-temperature environments including steam & gas turbines, turbochargers

## Features

- Provides controlled friction during assembly to support exact tensioning
- Excellent anti-seize properties: Allows screws to be removed easily, even after long-term exposure at high temperatures
- Applicable for chromium-containing alloys, even at elevated temperatures
- Free of intentional calcium ingredients
- High-purity paste (impurity sulfur, calcium and total halogen content regularly monitored)
- Environmentally friendly and health-friendly – no hazard labeling and precautionary statements

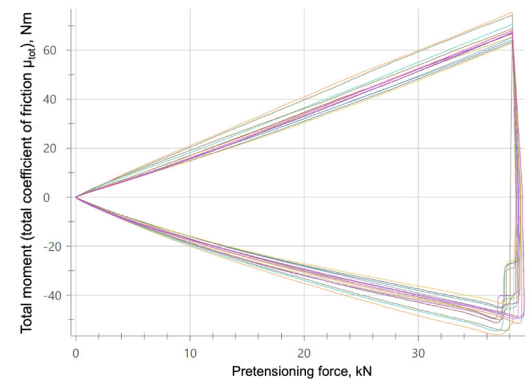
## Responding to market needs and the trend towards more sustainable products

Threaded connections in high-temperature-operating applications such as turbines and turbochargers require health-friendly lubrication to avoid seizing and to provide proper tightening torque. MOLYKOTE® P-3700 Anti-Seize Paste provides these features over a wide service-temperature range of -30°C to 900°C, enabling maintenance after long periods of time at elevated temperatures to minimize material usage and waste. In addition, MOLYKOTE® P-3700 Anti-Seize Paste is equipped with a friendly EHS profile while still providing high performance under stress.

## Screw test results

### Constant forces over multiple tightenings

Testing in the Schatz screw tester shows that MOLYKOTE® P-3700 Anti-Seize Paste provides repeatable constant forces over multiple tightenings (5), independent of screw type.



### Suppression of hexavalent chromium formation

MOLYKOTE® P-3700 Anti-Seize Paste successfully suppresses formation of yellowish hexavalent chromium Cr(VI) at high temperatures while still offering fully functional anti-seizing property.



Lubricated stainless steel bolts after exposure to >500°C





## Typical properties of MOLYKOTE® P-3700 Anti-Seize Paste

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 <sup>(1)</sup>	Test	Result
	Appearance	Dark gray
<b>Consistency, density</b>		
ISO 2137	Unworked penetration	280 to 320 mm/10
ISO 2811	Density at 20°C	1.23 g/cm <sup>3</sup>
<b>Temperature</b>		
	Service temperature range <sup>(2)</sup>	-30 to +900°C
<b>Loading capacity, protection against wear, service life</b>		
DIN 51350 T.4	4-ball weld load	3,000 N
DIN 51350 T.5	4-ball wear scar under 400 N load	1.1 mm
<b>Coefficient of friction &amp; threaded connections</b>		
Screw test: Schatz tester	<b>M12 x 1.75 mm, 8.8, blackened surface</b>	
	μ thread (avg.)	0.10
	μ head (avg.)	0.10
	K-factor (avg.)	0.14
Screw test: Schatz tester	<b>M12 x 1.75 mm, A2-70, 1.4301, blank</b>	
	μ thread (avg.)	0.11
	μ head (avg.)	0.09
	K-factor (avg.)	0.14
Internal	Initial breakaway torque after 540°C/21 hr on 1.7709, M12, blackened (start torque = 56 Nm)	~120 Nm

<sup>(1)</sup>ISO: International Standardization Organization. DIN: Deutsche Industrie Norm. | <sup>(2)</sup>Temperature resistance of solid lubricants.

## About MOLYKOTE® Specialty Lubricants

For more than 70 years, customers around the world have trusted the MOLYKOTE® brand for performance and expertise to solve or prevent virtually any lubrication problem and to save energy. Available through a global network of more than 3,000 channel partners, MOLYKOTE® brand lubricants – which include well over 500 anti-friction coatings, compounds, dispersions, greases, oils and fluids, and pastes – serve the automotive market and industrial/maintenance, repair and overhaul (MRO) markets. To learn more about our extensive product and service offering or to locate a distributor, visit [molykote.com](http://molykote.com).



## Contact us

MOLYKOTE® has Contact Centers around the globe. Find the phone number for the center nearest you at [www.dupont.com/molykotecontact](http://www.dupont.com/molykotecontact).



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