

MOLYKOTE® P 1600

Multipurpose Copper Paste

General-purpose lubricating paste that provides excellent lubricity and corrosion protection for various assembly jobs

Features

- High load-carrying capacity
- Low friction
- Good anti-wear performance
- Excellent corrosion protection
- Good temperature performance
- Easy to apply

Applications

Assembly and threaded connections, mounting of bearings, machine beds, assembly of spline shafts, flange sealing and threaded connections at elevated temperatures.

How to use

All surfaces and threads should be cleaned. The paste should be applied with a suitable brush, rag or grease gun.

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.

Usable life and storage

When stored at or below 20°C (68°F) in the original unopened containers, this product has a usable life of 60 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.

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			
	Color		Copper
Consistency, viscosity			
ISO 2137	Unworked penetration	mm/10	330-370
DIN 51 562	Base oil viscosity at 40°C (104°F)	mm ² /s	105
Temperature			
	Service temperature (paste)	°C	-20 to +130
		°F	-4 to +266
	As dry solid lubricant	°C	+1,100
		°F	+2,012
DIN 2176	Drop point	°C	173
		°F	343.4
Load-carrying capacity, wear protection, service life			
	Almen-Wieland tester	N	20,000
DIN 51350 pt.4	Four-ball weld load	N	3,600
DIN 51 350 pt.5	Wear scar at 800 N load	mm	1.2
	Fretting corrosion - Deyber	cycles	30x10 ⁴
Coefficient of friction			
	Press-fit test μ =		0.15
	Screw test - μ thread		0.12
	Screw test - μ head		0.12

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

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Typical properties (continued)

Standard ⁽¹⁾	Test	Unit	Result
Coefficient of friction (continued)			
	High-temperature thread test at tightening of 82 Nm, 8.8, 300°C (572°F) for 21 hours		
	Break-away torque	Nm	115
	High-temperature thread test with alloy 1.4841 at high tightening of 68 Nm, 1,100°C (2,012°F) for 21 hours		
	Break-away torque	Nm	123
Corrosion protection			
DIN 51 802	SKF-Emscor method Degree of corrosion		0 (no corrosion)

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

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