MOLYKOTE® Cu-7439 Plus Paste V1

Copper paste for components subjected to high temperatures, high pressures and corrosive influences

Features

- Wide service-temperature range (-30 to +650°C)
- Good pressure resistance and load carrying capacity
- Good corrosion protection
- Very adhesive and resistant against water washout
- Low evaporation
- No drop point

Composition

- Powdered copper
- Partly synthetic oil
- Inhibitor
- MOLYKOTE® Cu-7439 Plus Paste V1 is available in a spray and can be used wherever a paste in spray form may be desired

Applications

Well-suited for all areas that need to be protected against water, steam and corrosion (e.g., brake mechanisms, flange seals, exhauster bolts, threaded connections). Allows for trouble-free disassembly of machine components even after long service intervals in environment such as steel works, glass manufacturing, refineries and petrochemical facilities, and on agricultural and marine vehicles.

How to use

If possible, contact surfaces should be cleaned. Then apply paste with a brush or cloth. Excess lubricant need not be removed. MOLYKOTE® Cu-7439 Plus Paste can be used in grease guns and centralized lubrication systems.

If using the spray, MOLYKOTE® Cu7439 Plus Paste V1 should be applied in a sweeping motion to obtain a thin, uniform coating. Avoid over application.

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
	Color		Copper - colored
Consistency, density, viscosity			
ISO 2137	Unworked penetration	mm/10	320-370
DIN 53 217	Density at 20°C (68°F)	g/ml	1.0
DIN 51 562	Base oil viscosity at 40°C (104°F)	mm^2/s	1,100
Temperature			
	Service temperature	°C	-30 to +650; paste effective to +300
		°F	-22 to +1,202; paste effective to +572
ISO 2176	Drop point	°C	None
		°F	None
Load-carrying capacity, wear protection, service life			
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	2,500
DIN 51 350 pt.5	Wear factor under 800 N load	mm	1.0
	Almen-Wieland machine		
	OK load	N	>20,000
Coefficient of friction			
	Press-fit test μ =		0.07

(1)DIN: Deutsche Industrie Norm.

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Typical properties (continued)

Standard	Test	Unit	Result
	Screw test:		
	Coefficient of friction of bolt connection M12, 8.8, blackened surface		
	- μ thread		0.17
	- μ head		0.10
	Initial break-away torque (M12 with starting torque Ma=80 Nm and heat treatment at 300°C/572°F, 21 h, bolt material: C 45, 8.8, mat.no. 1.0503)	Nm	110
DIN 51 807 pt.1	Water resistance, static, evaluation		1 @ 90ºC
Corrosion protection			
DIN 52 802	SKF-Emcor method		
	Degree of corrosion		0

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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. This product is also available in spray form, MOLYKOTE® Cu-7439 Plus Paste Spray V1.

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