

Product Information

High Performance Lubricants

DOW CORNING

MOLYKOTE® Cu-7439 Plus Paste

FEATURES

- Wide service temperature range
- Good pressure resistance
- Very adhesive and resistant against water wash-out
- Good corrosion protection
- Low evaporation
- No drop point

COMPOSITION

- Powdered copper
- Partly synthetic oil
- Inhibitor

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

APPLICATIONS

- Well suited for all areas which need to be protected against water, steam and corrosion, e.g. brake mechanisms, flange seals, exhauster bolts.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

Standard*	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	1100
	Temperature		
	Service temperature	°C	-30 to +650; paste effective to +300
		°F	-22 to +1202; 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	2500
DIN 51 350 pt.5	Wear factor under 800N load	mm	1.0
	Almen-Wieland machine		
	OK load	N	>20000
	Coefficient of friction		
	Press-Fit test $\mu =$		0.07
	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	Nm	110
	(M12 with starting torque $M_a=80$ Nm and heat treatment at 300°C/572°F, 21h, bolt material: C 45, 8.8, mat.no. 1.0503)		

TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
DIN 51 807 pt.1	Water resistance, static, evaluation		1 @ 90°C
	Corrosion protection		
DIN 52 802	SKF-Emcor method		
	Degree of corrosion		0

HOW TO USE

How to apply

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 centralised lubrication systems.

HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

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 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, www.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 Dow Corning's 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.

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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.

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