

# Product Information

## High Performance Lubricants

# 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                        |
|                 | <b>Consistency, density, viscosity</b>   |                    |                                       |
| 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 <sup>2</sup> /s | 1100                                  |
|                 | <b>Temperature</b>   |                    |                                       |
|                 | 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                                  |
|                 | <b>Load-carrying capacity, wear protection, service life</b>   |                    |                                       |
|                 | 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                                |
|                 | <b>Coefficient of friction</b>   |                    |                                       |
|                 | Press-Fit test $\mu =$   |                    | 0.07                                  |
|                 | Screw test:  |                    |                                       |
|                 | Coefficient of friction of bolt connection   |                    |                                       |
|                 | M12, 8.8, blackened surface  |                    |                                       |
|                 | - $\mu$ thread   |                    | 0.17                                  |
|                 | - $\mu$ head   |                    | 0.10                                  |
|                 | Initial break-away torque  | Nm                 | 110                                   |
|                 | (M12 with starting torque $M_a=80Nm$ and heat treatment at 300°C/572°F, 21h, bolt material: C 45, 8.8, mat.no. 1.0503) |                    |                                       |



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## TYPICAL PROPERTIES (continued)

| Standard*       | Test                                 | Unit | Result   |
|-----------------|--------------------------------------|------|----------|
| DIN 51 807 pt.1 | Water resistance, static, evaluation |      | 1 @ 90°C |
|                 | <b>Corrosion protection</b>          |      |          |
| 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](http://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](http://www.dowcorning.com) or consult your local Dow Corning representative.

## LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY

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