

# Product Information

## Specialty 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**

## APPLICATION

- Well suited for all areas which need to be protected against water, steam and corrosion, e.g. brake mechanisms, flange seals, exhaust 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              | 280-310                              |
| DIN 53 217      | Density at 20°C   | g/ml               | 1.0                                  |
| DIN 51 562      | Base oil viscosity at 40°C  | mm <sup>2</sup> /s | 1100                                 |
|                 | <b>Temperature</b>  |                    |                                      |
|                 | Service temperature   | °C                 | -30 to +650; paste effective to +300 |
| ISO 2176        | Drop point  | °C                 | 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 Ma=80Nm and heat treatment at 300°C, 21h, bolt material: C 45, 8.8, mat.no. 1.0503) |                    |                                      |
|                 | <b>Resistance</b>   |                    |                                      |
| DIN 51 807 pt.1 | Water resistance, static, evaluation  |                    | 1-90                                 |
|                 | <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 SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

## **USABLE LIFE AND STORAGE**

When stored at or below 20°C 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 Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

## **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. Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. 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. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.