

# MOLYKOTE® G-Rapid Plus Paste

Solid lubricating paste with particularly low friction coefficient for assembly and running-in of metallic components

## Features & benefits

- Low friction coefficient
- High pressure-absorption capacity
- Prevents seizure and scoring
- Suppresses stick-slip
- Reduces formation of fretting corrosion
- Facilitates disassembly
- Good coverage
- Provides emergency running performance
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

## Composition

- Mineral oil
- Solid lubricants

## Applications

Suitable for the press-fit production of all types of machine elements, as a running-in lubricant for new machines and gears, as permanent lubrication of machine elements that are submitted to slight or intermittent movement only, as well as for drilling, sawing and thread-cutting. Used to lubricate threaded spindles, splined shafts, tooth gearing, worm gearing, moving screws, fittings, pumps, guides on machine tools, as well as for fitting ball and roller bearings, pulleys, wheel flanges and bolts.

## How to use

Clean the sliding surfaces or contact areas, then apply paste with a brush, cloth, synthetic sponge or window leather. Do not use in excess as with grease lubrication. Vigorous rubbing into metal surface will improve adhesion. Do not mix with greases or oils.

To enable this product to be applied more quickly and cleanly to larger areas, it is advisable to use the spray can. If using the spray, MOLYKOTE® G-Rapid Plus Paste Spray 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 <sup>(1)</sup>        | Test   | Unit  | Result           |
|--------------------------------|--|-------|------------------|
|                                | Color  |       | Black            |
| <b>Consistency, density</b>    |  |       |                  |
|                                | Unworked penetration   | mm/10 | 255-275          |
|                                | Density at 20°C (68°F)   | g/ml  | 1.40             |
| <b>Temperature</b>             |  |       |                  |
|                                | Service temperature  | °C    | -35 to +450      |
|                                |  | °F    | -31 to +842      |
| <b>Load-carrying capacity</b>  |  |       |                  |
|                                | Four-ball tester   |       |                  |
| DIN 51 350 pt.4                | Weld load  | N     | 5,300            |
|                                | Almen-Wieland machine OK load  | N     | > 20,000         |
| <b>Coefficient of friction</b> |  |       |                  |
|                                | In bolted connection M12, 8.8 with blackened surface (Erichsen tester) |       |                  |
|                                | μ thread   |       | 0.10             |
|                                | μ head   |       | 0.06             |
|                                | Press-fit test   | μ     | 0.05, no chatter |
| <b>Resistance</b>              |  |       |                  |
| DIN 51 807 pt.1                | Water resistance, static, evaluation                                   |       | 1-90             |

<sup>(1)</sup>DIN: Deutsche Industrie Norm.

## 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 between 0°C and 40°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

Specifically for aerosol packaging, this product has a usable life of 24 months from the date of production when stored between 5°C and 35°C in the original unopened container. Because it is an aerosol, punctures should be avoided, and containers should be kept away from heat, sparks and open flame.

## Packaging

This product is available in different standard container sizes and is also available in aerosolized spray cans as MOLYKOTE® G-Rapid Plus Paste Spray. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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