# MOLYKOTE® HTP Paste

Solid lubricating paste for hot forming of metals

## Features

- High-temperature resistance (up to 1,150°C)
- Reduces friction and wear
- Reduces scoring
- Increases service life of tools

## Composition

- Mineral oil
- Thickener
- Solid lubricant

## Applications

Suitable for the lubrication of tools for hot forming, particularly on hot-flow presses and drop forging; also as a parting agent and slip additive at high temperatures. Used successfully for the hot bending of flat steel St 37 or St 70, the rolling of the ends of vehicle leaf-springs, folding of sheet metal edges, hot rolling of cutters, and drop forging of flywheels made from St 37, as well as for the lubrication of separator plates on chipboard presses.

## How to use

Apply MOLYKOTE® HTP Paste with a suitable brush or a rag, thinly and uniformly to the cleaned workpiece or tool. Application should be repeated from time to time, as required.

## 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 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.

## 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 | | White |
| **Penetration, density, viscosity** | | | |
| ISO 2137 | Unworked penetration | mm/10 | 250-280 |
| ISO 2811 | Density at 20°C | g/ml | 1.5 |
| **Temperature** | | | |
| | Service temperature[2] | °C | -20 to +1,150 |
| **Load-carrying capacity, wear protection, service life** | | | |
| | Four-ball tester (VKA) | | |
| DIN 51 350 pt.4 | Weld load | N | 2,200 |
| DIN 51 350 pt.5 | Wear scar under 800 N load | mm | 1.0 |
| | Almen-Wieland machine | | |
| | OK load | N | 20,000 |
| | Friction force | N | 2,300 |

[1]ISO: International Standardization Organization. DIN: Deutsche Industrie Norm.
[2]Temperature resistance of solid lubricants.

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