# MOLYKOTE® G-3000 Grease

High-performance grease based on a synthetic oil and a lithium complex soap thickener with very good shear and centrifugal stability under high temperatures and a low coefficient of friction

## Features

- High shear stability
- High centrifugal stability
- High-temperature stability; dropping point >250°C
- Low friction factor for steel/steel material pairings under medium loads

## Benefit

- Longer service life

## Composition

- Lithium complex thickener
- Synthetic oil
- Oxidation inhibitors

## Applications

Dual mass flywheels.

## Description

MOLYKOTE® G-3000 Grease is a high-performance grease based on a lithium complex thickener and a synthetic base oil including specific additives for the prevention of oxidation. This grease is designed for DMFWs (dual mass flywheels) at a service temperature range between -40 and +200ºC, with a special aptitude on shear and centrifugal stability as well as protection against oxidation.

## 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 23°C in the original unopened containers, MOLYKOTE® G-3000 Grease has a usable life of 60 months from the date of production.

## 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 | | Beige |
| **Consistency, density, viscosity** | | | |
| DIN 51 818 | NLGI consistency class | | approx. 3 |
| ISO 2137 | Unworked penetration range | mm/10 | 215-230 |
| ISO 2137 | Unworked penetration | mm/10 | 223 |
| ISO 2137 | Worked penetration, 100,000 strokes | mm/10 | 253 |
| | Difference to unworked penetration | mm/10 | 30 |
| ISO 2811 | Density at 20°C | g/ml | 1.0 |
| DIN 51 562 | Base oil viscosity at 40° | mm²/s | ~400 |
| **Temperature** | | | |
| | Service temperature range | °C | -40 to +180, short time 220 |
| ASTM D566 | Dropping point | °C | 300 |
| DIN 51805 | Kesternich method: flow pressure -20°C | mbar | 675 |
| **Loading capacity, wear and corrosion protection, service life** | | | |
| | Four ball tester | | |
| DIN 51 350 T.4 | Weld load | N | 2,200 |
| DIN 51 350 T.5 | Wear scar under 400 N load | mm | 0.7 |
| DIN 51802 | SKF-Emcor method, degree of corrosion | | 0/0 |
| **Oil separation, evaporation, oxidation stability** | | | |
| FDS 791-32/2 | Oil bleeding 24 h/150°C | % | approx. 0 |
| FDS 791-32/2 | Oil evaporation 24 h/150°C | % | 0.6 |

[1]FTMS: Federal Test Method Standard. ASTM: American Society for Testing and Materials.

## Packaging

This product is available in different standard container sizes as shown on **molykote.com**. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.



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