



# MOLYKOTE® G-4700 Extreme Pressure Synthetic Grease

## Features

- Wide service-temperature range
- Compatible with many plastics and elastomers
- Meets Cincinnati Machine P-64 and NLGI GC-LB
- Fully synthetic base oil
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

## Benefits

- Formulated to provide higher load-carrying capacity, greater wear resistance and longer service life compared to conventional petroleum-based lubricants
- Provides good compatibility with most industrial and engineering substrates, including many plastic and rubber materials
- Designed to handle extreme loads and applications involving vibration and/or shock loading
- Excellent low-temperature torque

## Composition

- PAO base oil
- Lithium complex thickener
- Fortified with molybdenum disulfide (MoS<sub>2</sub>)

## Applications

General purpose light-consistency black synthetic grease can be used in rolling element and plain bearings, pivot pins, cams, guides, ways, drive screws, gears, splines, and other machine elements.

## Description

MOLYKOTE® G-4700 Extreme Pressure Synthetic Grease combines the benefits of wide operating-temperature range and broad compatibility with varied materials. It is thickened with a lithium complex and contains molybdenum sulfide as a solid lubricant. MOLYKOTE® G-4700 Grease can be used to lubricate rolling element and plain bearings, pivot pins, cams, guides, ways, drive screws, gears, splines and other machine elements.

## How to use

Apply using conventional grease application methods (i.e., clean brush, grease gun and manual or automated dispensing equipment).

## 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     |
|---|--|-------|------------|
| <b>Consistency, viscosity, specific gravity</b>       |  |       |            |
| DIN 51 818  | NLGI consistency class                   |       | 2          |
| ASTM D217   | Penetration at 25°C (77°F) (W/60)        | mm/10 | 265-295    |
| ASTM D445   | Base oil viscosity at 40°C (104°F)       | cSt   | 150        |
| ASTM D445   | Base oil viscosity at 100°C (212°F)      | cSt   | 20         |
| ISO 2811  | Specific gravity at 25°C (77°F)          | g/ml  | 0.87       |
| <b>Temperature</b>                                    |  |       |            |
|   | Temperature range (approximate)          | °C    | -40 to 177 |
|   |  | °F    | -40 to 350 |
| ASTM D2265  | Dropping point                           | °C    | >285       |
|   |  | °F    | >545       |
| FD 791-32/2   | Oil bleed, 24 hours, 100°C (212°F)       | wt%   | 3.9        |
| FD 791-32/2   | Oil evaporation, 24 hours, 100°C (212°F) | wt%   | 0.44       |
| ASTM D4693  | Low-temperature torque at -40°C (-40°F)  | Nm    | .024       |
| <b>Load-carrying capacity, wear protection, speed</b> |  |       |            |
| ASTM D2266  | Four-ball wear, 40 kg, 1,200 rpm         | mm    | 0.64       |
| ASTM D2596  | Four-ball EP, weld load, minimum         | N     | 3,700      |
|   | Dn, bearing ID (mm)x(rpm), estimated     |       | 350,000    |

<sup>(1)</sup>DIN: Deutsche Industrie Norm. ASTM: American Society for Testing and Materials. ISO: International Standardization Organization. FD: Federal Standard: Testing Method of Lubricants Liquid Fuels and Related Products.

## 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 35°C (95°F) in the original unopened containers, these products have a usable life of 60 months from the date of production.

## Packaging

This product is available in different standard container sizes as shown on [molykote.com](http://molykote.com). Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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