

# Specialty Lubricants

## MOLYKOTE® G-4500/G-4501 Multi-purpose synthetic grease

### FEATURES

- Wide service temperature range
- Compatible with many plastics and elastomers
- Meets FDA Regulation 21 CFR 178.3570 and USDA H1 classifications for incidental food contact
- Fully synthetic base oil
- White color
- Available in NLGI consistency classes 1 and 2

### 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
- Excellent low temperature torque
- Low consistency formulation of G-4501 allows use in automatic dispensing systems

### COMPOSITION

- PAO base oil
- Aluminum complex thickener
- Fortified with polytetrafluoroethylene (PTFE)

### White food grade synthetic greases

#### APPLICATION

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

#### 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.

ASTM*	Property	Unit	Value	
			G-4500	G-4501
<b>Consistency, Viscosity, Specific Gravity</b>				
DIN 51 818	NLGI consistency class		2	1
ASTM D217	Penetration at 25°C (77°F) (W/60)	mm/10	265-295	310-340
ASTM D445	Base oil viscosity at 40°C (104°F)	cSt	100	100
ASTM D445	Base oil viscosity at 100°C (212°F)	cSt	14.4	14.4
ISO 2811	Specific gravity at 25°C (77°F)	g/ml	0.84	0.83
<b>Temperature</b>				
	Temperature range (approximate)	°C	-40 to 150	-40 to 150
		°F	-40 to 302	-40 to 302
ASTM D2265	Dropping point	°C	>270	>260
		°F	>518	>500
FD 791-32/2	Oil bleed, 24 hours, 100°C (212°F)	wt%	3.1	4.7
FD 791-32/2	Oil evaporation, 24 hours, 100°C (212°F)	wt%	0.4	0.5
ASTM D4693	Low-temperature torque at -40°C (-40°F)	Nm	0.9	0.7
<b>Load Carrying Capacity, Wear Protection, Speed</b>				
ASTM D2266	Four-ball wear, 40kg, 1200rpm	mm	0.5	0.5
ASTM D2596	Four-ball EP, weld load, minimum	N	>3,100	>3,100
ASTM D2509	TIMKEN test, OK load	kg	>18	>18
	Dn, bearing ID (mm)x(rpm), estimated		325,000	325,000

\* ASTM: American Society for Testing and Materials.

ISO: International Standardisation Organisation.

DIN: Deutsche Industrie Norm.

## DESCRIPTION

MOLYKOTE G-4500/G-4501

Multi-purpose synthetic greases are high-performance greases that combine the benefits of wide operating temperature range and broad compatibility with varied materials.

Both are thickened with an aluminum complex and contain white solid lubricants. They can be used to lubricate bearings, gears, chains and sliding mechanisms in food processing machinery.

## HOW TO USE

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

## 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 material safety data sheet is available on the Dow Corning website at [www.dowcorning.com](http://www.dowcorning.com). You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

## USABLE LIFE AND STORAGE

When stored at or below 40°C (104°F) in the original unopened containers, these products have a usable life of 60 months from the date of production.

## PACKAGING

These products are 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 Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com) or consult your local Dow Corning representative.

## LIMITED 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 customers' tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

WE HELP YOU INVENT THE FUTURE.™

[www.dowcorning.com](http://www.dowcorning.com)  
[www.molykote.com](http://www.molykote.com)