

# Product Information Specialty Lubricant



DOW CORNING

## Molykote<sup>®</sup> D-6818 Anti-Friction Coating

### FEATURES & BENEFITS

- Wear resistance
- Chemical resistance
- No solvent (NMP) or contents that require reporting or are prohibited under REACH
- Black color appearance
- Long endurance life
- High load carrying capacity

### COMPOSITION

- Solid lubricant
- Organic binder
- Solvent

Heat curing dry film lubricant

### APPLICATIONS

- For metal/metal combinations at medium to high loads
- Used on industrial machinery parts
- Used on compressor pistons and combustion engine pistons

### TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test <sup>1</sup>	Property	Unit	Result
	Color	-	Black Liquid
	Viscosity, BM, No. 2, 30 rpm	mPa.s	600
	Relative Density	-	1.2
	Nonvolatile Content	%	34.9
	Flash Point	°C	44
	Drying Time/Temperature	min/°C	10/80
	Curing Time/Temperature	min/°C	60/220
	Film Service Temperature Range	°C	-60 to +240
JIS K5400	Pencil Hardness		4H
	Load Carrying Capacity <sup>2</sup> Ring on Plate Test, 500 N, 4.0 m/s, dry	sec	520
	Friction Coefficient, after 5 minutes* Ring on Plate Test, 500 N, 4.0 m/s, dry	-	0.06

<sup>1</sup>Japanese Industrial Standard

<sup>2</sup>Steel Panel: Cure 220°C×60 min, Film thickness 15 µm, Ring: Uncoated

### DESCRIPTION

Molykote<sup>®</sup> D-6818 Anti-Friction Coating is a dispersion of solid lubricants in an organic resin-solvent.

### HOW TO USE

Stir well before use. Clean and degrease metal surfaces before application. Molykote D-6818 Anti-Friction Coating is formulated for application by spray. Recommended film thickness is 10–20 microns at one spray. To adjust coating viscosity, the material should be diluted with Molykote<sup>®</sup> D-7415 Thinner.

**HANDLING  
PRECAUTIONS  
PRODUCT SAFETY  
INFORMATION REQUIRED FOR  
SAFE USE IS NOT INCLUDED IN  
THIS DOCUMENT. BEFORE  
HANDLING, READ PRODUCT  
AND SAFETY DATA SHEETS  
AND CONTAINER LABELS FOR  
SAFE USE, PHYSICAL AND  
HEALTH HAZARD  
INFORMATION. THE SAFETY  
DATA SHEET IS AVAILABLE ON  
THE DOW CORNING WEBSITE  
AT DOWCORNING.COM, OR  
FROM YOUR DOW CORNING  
SALES APPLICATION  
ENGINEER, OR DISTRIBUTOR,  
OR BY CALLING  
DOW CORNING CUSTOMER  
SERVICE.**

## **USABLE LIFE AND STORAGE**

*Molykote* D-6818 Anti-Friction Coating has a shelf life of 720 days when kept in its original sealed container at ambient temperature.

## **PACKAGING INFORMATION**

This product is 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, [dowcorning.com](http://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 customer's tests to ensure that our 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 our products will meet the 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.

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PURPOSE OR  
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*We help you invent the future.*<sup>™</sup>

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