

# Product Information

## Specialty Lubricants

# Molykote® P 74 Metal-Free Anti-Seize

### FEATURES

- High load-carrying capacity
- Good corrosion protection
- Non-metallic formulation
- Wide service temperature range
- Low and constant coefficient of friction

### BENEFITS

- Facilitates disassembly even after extended periods and after demanding and unfavorable conditions of service
- Metal-free formulation avoids fastener brittleness or environmental contamination
- With a coefficient of friction similar to oiled bolts, tightening torques can be calculated and applied uniformly, even upon repeated loosening and tightening, aiding in:
  - Uniform clamping force on flanges, valves, housings, etc.
  - Increased safety against bolt fractures
  - Increased safety against loosened screws due to vibration

### COMPOSITION

- Solid lubricants, synthetic oil, thickener and adhesion promoter

### High load-carrying, metal-free lubricant for antiseize and lubricating applications

### USES

*Molykote® P 74 Metal-Free Anti-Seize* is suitable for assembly and fitting of a wide variety of threaded connections, such as bolted connections, sliding contact bearings, linear sliding guides, splined shafts, press-fit joints, exhaust bolts, spark plug threads, flanges and flange seals, door hinges and brake mechanisms.

### TYPICAL PROPERTIES

These values are not intended for use in preparing specifications.

Method	Test	Unit	Result	
CTM 191	Color		Grayish black	
	Physical Form		Paste	
	Unworked Penetration		280-310	
	Density at 68°F (20°C)	g/mL	1.21	
	Service Temperature Range, as paste	°F (°C)	-40 to 392 (-40 to 200)	
DIN 51 350 pt. 4	as dry lubricant <sup>1</sup>	°F (°C)	2732 (1500)	
	4-Ball Weld Load	N	4800	
	SRV Oscillating Wear Tester, 300 N load, 1000 µm elongation, 20 Hz, 194°F (90°C), duration	min	90	
CTM 1153	Coefficient of Friction, M12, 8.8, blackened surface	Thread/Head	µ/µ	0.14/0.08
		Press-Fit Test	µ	0.12
ISO/R 1456	Corrosion Protection	Salt Spray Test, at 50 µm	h	140
		DIN 51 802	SKF-Encor Method	degree of corrosion

<sup>1</sup>Some of the raw materials still act as separating agents at 2732°F (1500°C).

**Specification Writers: Please obtain a copy of the Dow Corning Sales Specification for this product and use it as a basis for your specifications. It may be obtained from any Dow Corning Sales Office, or from Dow Corning Customer Service in Midland, MI. Call (517) 496-6000.**

### HOW TO USE

Clean threads of metal surfaces to remove dirt. Apply paste liberally by hand, gun or centralized lubrication system. For optimum performance, do not mix with other lubricants.

### USE LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical use.

### SHIPPING LIMITATIONS

None.

## **STORAGE AND SHELF LIFE**

*Molykote* P 74 Metal-Free Anti-Seize has a shelf life of 60 months from date of manufacture.

## **PACKAGING**

*Molykote* P 74 Metal-Free Anti-Seize is supplied in 8-oz (227-g) brush cans and 1- and 2-lb (0.45- and 0.9-kg) cans.

## **SAFE HANDLING INFORMATION**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL

SAFETY DATA SHEET IS AVAILABLE FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY WRITING TO DOW CORNING CUSTOMER SERVICE, OR BY CALLING (517) 496-6000.

## **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 Dow Corning's products are safe, effective, and fully satisfactory for the intended end use.

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. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.