

Specialty Lubricants

MOLYKOTE® P74 Super Anti-Seize

Solid lubricant paste used in the assembly and fitting of a wide range of components such as metal threaded connections

FEATURES

- Metal-free
- Good corrosion protection
- High load-carrying capacity
- Coefficient of friction is of the same order as for oiled bolts
- Low scattering of pre-tensioning force
- Prevention of stress cracking and brittleness
- Wide service temperature range
- Wear reduction

COMPOSITION

- Solid lubricants
- Synthetic oil
- Thickener
- Adhesion promoter

APPLICATIONS

- Suitable for a wide range of applications in the chemical, petrochemical, paper and automotive industry, and in engineering, wood and plastic processing.
- Used on bolted connections, sliding contact bearings, linear sliding guides, splined shafts, press-fit joints, exhaust bolts, spark plug threads, flanges and flange seals, door hinges, brake mechanisms and plate springs.

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.

Standard*	Test	Unit	Result
	Physical properties		
	Color		Grayish black
ISO 2137	Unworked penetration	mm/10	280-310
DIN 2811	Density at 20°C	g/ml	1.21
	Base oil viscosity at 40°C	mm ² /s	65
	Service temperature range	°C	-40 to +200 as a paste, to +1500 dry lubrication
ISO 2176	Drop point	°C	None
	Flow pressure at -40°C	mbar	Approx. 400
DIN 51 817	Oil separation, 7 days, 40°C	%	2.8
	Corrosion protection		
ISO/R 1456	Salt spray test at 50µm thickness	h	120
	Load-carrying capacity, wear protection, service life		
DIN 51 350 pt.4	Four-ball tester		
	Weld load	N	4800
DIN 51 350 pt.5	Four-ball tester		
	Wear scar at 800N load	mm	1.1
	SRV test, type Optimol ball/plane, load 300N endurance test, friction coefficient		0.10
	Step load test, max. load	N	1200
	Wear scar	mm	0.74
	Coefficient of friction		
	Pressfit	µ	0.14
	Screw test: Erichsen		
	Friction coefficient in bolt connection	µ thread	0.117
	M-12 alloy 1.7709	µ head	0.078
	Alloy Sopral P 40 aluminium	µ thread	0.13
		µ head	0.094

TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
	Hot screw test		
	Alloy 1.7709, M-12 after 4 weeks at 540°C		
	Initial break-away torque at starting torque of 60Nm	Nm	115
	Sopral 60 aluminium M-12, break away torque after 21h at 300°C	Nm	12.5
	Resistance against water		
DIN 51807	Water resistance		
Part 1	at 40°C		0
	at 90°C		0-1

* ISO: International Standardisation Organisation.

DIN: Deutsche Industrie Norm.

SPECIFICATIONS

General Motors (Opel)

B0401264

Volkswagen

TL 52112

No. B7217

Complies with General Electric

TIL 1117-3RI

Complies with EDF-PMUC 04034

Complies with Pratt & Whitney

PWA-36246

HOW TO USE

How to apply

If possible, clean the thread and used bolts with a wire brush. Spread an adequate amount of the paste on the contact areas in order to obtain a good seal. An excess is not harmful. In order not to alter the properties, the paste must not be mixed with greases or oils. Use spray can in order to apply the product more quickly and cleanly to larger areas or poorly accessible places. Can be applied via centralized lubrication system.

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. 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 20°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

PACKAGING

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, 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 customer's 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.

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