

Product Information

High Performance Lubricants

DOW CORNING

Molykote[®] 55 O-Ring Grease

FEATURES

- Excellent oxidation resistance
- Good corrosion protection
- Wide Service Temperature Range 65°C to +175°C (-85°F to +347°F)
- Compatible with many plastics and elastomers

COMPOSITION

- Silicone oil
- Ester
- Lithium Soap

Silicone based grease for O-rings

APPLICATIONS

- Lubrication between rubber and metal parts in pneumatic systems in aircraft, automotive and general industrial applications

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*	Property	Unit	Result
	Color		Off-white
	NLGI consistency class		approx. 2
ASTM D 217	Worked Penetration	mm/10	290
ISO 2811	Density at 20°C (68°F)	g/cm ³	0.98
DIN 51 562	Base oil viscosity at 25°C (77°F)	mm ² /s	100
	Service temperature	°C	-65 TO +175
		°F	-85 TO +347
ASTM D 566	Drop point	°C	220
		°F	412
ASTM D147880	Low temperature torque test at -65°C (-85°F)		
	Initial break-away torque	Nm	325x10 ⁻³
	Torque after 20 minutes running time	Nm	35x10 ⁻³
	Coefficient of friction		
	Steel ball against plastic surface (POM) Ø ball = 12.7mm, load = 6.3N, v =10 mm/s, 24h, µ=		0.03
	Resistance		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C (210°F)	bar	0.1
	Corrosion protection		
DIN 51 802	SKF-Emcor method - degree of corrosion		0
FED Std 791	Bleed, 24h at 150°C (302°F)	%	3.0
	Evaporation, 24h at 150°C (302°F)	%	1.4
ASTM D 1264	Water washout resistance	%	4.2

*ASTM: American Society for Testing and Materials.

ISO: International Standardization Organization.

DIN: Deutsche Industrie Norm.

FED: Federal Standard: Testing Method of Lubricants, Liquid Fuels and Related Products.

DESCRIPTION

Molykote[®] 55 O-ring Grease is a silicone-based material that helps ensure positive lubrication and sealing by slightly swelling rubber O-rings and seals. This product is heat stable and oxidation resistant and is serviceable from approximately -65 to 175°C (-85 to 347°F).

HOW TO USE

Grease should be applied using brush, grease gun, or automatic lubrication system. Molykote 55 O-ring Grease can be used in centralized lubrication systems. Do not mix with other greases.

COMPATIBILITY

Molykote 55 O-Ring Grease has been shown to swell natural rubber. However, compatibility of the lubricant may vary with the plasticizer content of specific materials (especially elastomers). Small-scale compatibility testing should be conducted prior to the use of this product in any application.

Molykote 55 O-Ring Grease should not be used with the following materials unless thoroughly tested for your specific application:

- Silicone rubber (SR)
- Polycarbonate (PC)
- Acrylonitrile-butadiene-styrene (ABS)
- Liquid oxygen (or other strong oxidizers)

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 Web site at 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 32°C (90°F), *Molykote 55* O-Ring Grease has a shelf life of 60 months from date of manufacture. Refer to product packaging for “Use By” date.

PACKAGING INFORMATION

This product is available in standard industrial container sizes. For details please refer to your Dow Corning Sales office.

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 Web site, 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.

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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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