

Dow Corning[®] 55 O-Ring Lubricant

FEATURES

- Slightly swells rubber for better sealing
- Oxidation resistant
- Serviceable over a wide temperature range

COMPOSITION

- Soft silicone-based grease

Silicone-based grease provides dynamic lubrication and sealing between rubber and metal

USES

Dow Corning 55 O-Ring Lubricant is primarily used for dynamic lubrication and sealing between rubber and metal parts in pneumatic valves. Typical applications are found within the aircraft, automotive and other industries.

Dow Corning 55 O-Ring Lubricant has also been used as a temporary remedy for gear box seal leaks.

TYPICAL PROPERTIES

These values are not intended for use in preparing specifications.

Method	Test	Unit	Result
ASTM D 217	Color		Light beige
	Specific Gravity		0.98
	Penetration, worked 60 strokes		290
	Consistency, NLGI		No. 2
ASTM D 566	Dropping Point	°F (°C)	428 (220)
Fed Std 791 ¹	Bleed, 24 hours at 302°F (150°C)	percent	3.0
	Evaporation, 24 hours at 302°F (150°C)	percent	1.4
DIN 51802	Corrosion Testing, Emcore		0, no corrosion
ASTM D 1264	Water Washout Resistance	percent	4.2

¹Federal Standard 791, Method 321.1.

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.

DESCRIPTION

Dow Corning 55 O-Ring Lubricant 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 -85 to 351°F (-65 to 177°C).

COMPATIBILITY

Dow Corning 55 O-Ring Lubricant 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.

Dow Corning 55 O-Ring Lubricant 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)

USE LIMITATIONS

This material is neither tested nor represented as suitable for medical or pharmaceutical uses.

SHIPPING LIMITATIONS

None.

STORAGE AND SHELF LIFE

When stored at or below 90°F (32°C), *Dow Corning* 55 O-Ring Lubricant has a shelf life of 60 months from date of manufacture. Refer to product packaging for “Use By” date.

PACKAGING

Dow Corning 55 O-Ring Lubricant is supplied in 5.3-oz (150-g) tubes, 8-lb (3.6-kg) cans, 40-lb (18.1-kg) pails and 400-lb (181.4-kg) drums. All weights, net.

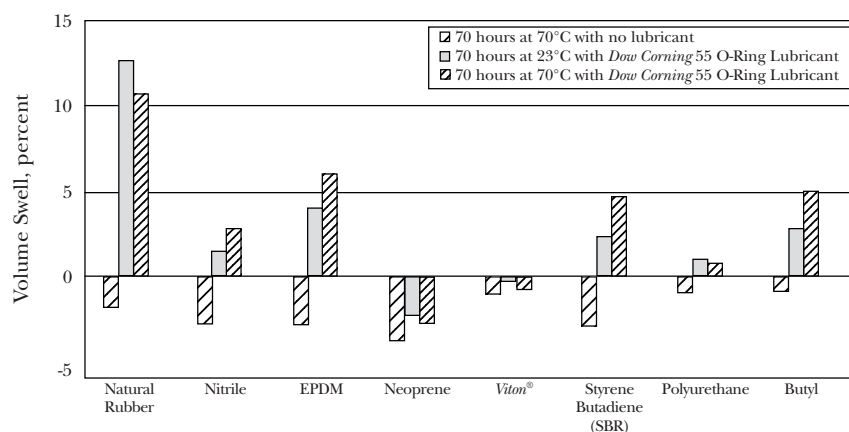
SAFE HANDLING INFORMATION

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

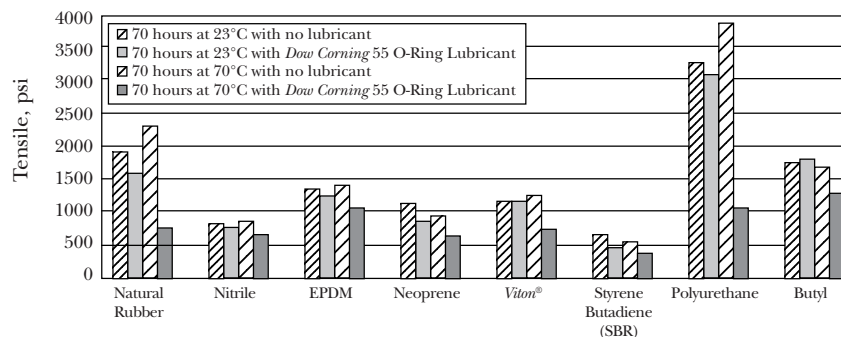
The information contained herein is offered in good faith and is

Figure 1. Percent Volume Swell of Various Elastomers (ASTM D 4289)



¹Registered trademark of E.I. du Pont de Nemours Co.

Figure 2. Effect on Tensile Strength of Various Elastomers (ASTM D 412)



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.