

# Product Information

## High Performance Lubricants

DOW CORNING

# Molykote<sup>®</sup> 111 Compound

## FEATURES

- Wide service temperature range (-20°C/68°F to 200°C/392°F)
- Excellent water resistance
- Compatible with many plastics and elastomers
- Low vapor pressure
- Low volatility
- Meets several global standards for water contact

## COMPOSITION

- Silicone oil
- Inorganic thickener

## APPLICATIONS

- Lubrication for control and pressure plug valves, water softener and faucet valves.
- Sealant for vacuum and pressure systems.
- Sealant for outdoor equipment (also shipboard) subject to washing and harsh environmental exposure: meters, electrical service entrance and underground connections.
- Damping medium for dash pots in electrical and electronic equipment.
- Used as an anti-stick and a sealant for transformer gasket and equipment enclosures. It prevents gaskets from sticking to metal and resists weathering and water washout.
- Rubber and plastic O-rings, gaskets and seals.

## 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
	Physical nature		Stiff compound
	Color		White to light grey; translucent
ISO 2137	Penetration unworked	mm/10	170 to 230
ISO 2137	Penetration; worked 60, max	mm/10	260
CTM 0033A	Bleed 24 hours/200°C (392°F), max	%	.5
CTM 0033A	Evaporation 24 hours/200°C (392°F), max	%	2.0

\*CTM: Corporate Test Method, copies of CTMs are available on request.  
ISO: International Standardization Organization

## CERTIFICATIONS

Molykote<sup>®</sup> 111 Compound meets several global standards for water contact, including NSF 51, NSF 61, FDA 21 CFR 175.300, Water Regulations Advisory Scheme Approval BS9260 (England), IPL Certificate of Conformity (France) and DIN-DVGW Examination certificate (Germany).

## HOW TO USE

### How to apply

Molykote 111 Compound can be applied by hand, specially designed automated equipment brushing or wiping. Certain designs of grease guns may seize up; test prior to use.

A thinner consistency can be achieved by dispersing in solvents such as xylene, mineral spirits and methyl ethyl ketone. Molykote 111 Compound can then be applied by brushing, dipping or spraying.

Molykote 111 Compound should not be applied to any surface which will be painted or finished. Such coatings may not adhere to the silicone-treated surface. If contaminated by a silicone coating, parts can be wiped or washed with solvent, washed with detergent, or immersed in an alcoholic potassium hydroxide solution and then rinsed in clear water before painting.

### **Chemical resistance**

*Molykote* 111 Compound is not greatly affected by mineral oils, vegetable oils or air. It is generally resistant to dilute acids and alkalines and to most aqueous solutions.

Because each application may vary in chemical composition, pressure, flow velocity, re-lubrication requirements and equipment design, it is recommended that the silicone compound be tested before adopting for regular use.

*Molykote* 111 Compound is not to be used with liquid oxygen and should not be used in applications requiring LOX compatibility.

### **HANDLING PRECAUTIONS**

*Molykote* 111 Compound may cause temporary discomfort when in direct contact with eyes. In case of eye contact, flush eyes with water.

### **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 SAFETY  
DATA SHEET IS AVAILABLE  
FROM YOUR LOCAL  
DOW CORNING SALES  
REPRESENTATIVE.**

### **USABLE LIFE AND STORAGE**

When stored at or below 20°C (68°F) in the original unopened containers, this product has a usable life of 60 months from the date of production

### **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 Web site, [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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ANY OTHER EXPRESS OR  
IMPLIED WARRANTY OF  
FITNESS FOR A  
PARTICULAR PURPOSE OR  
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