

Product Information

High Performance Lubricants

DOW CORNING

Dow Corning® 7 Release Compound

FEATURES

- Maintain serviceable consistency from -40 to 204°C (-40 to 400°F)
- Practically nonvolatile
- Moisture resistant
- Electrically insulating
- Excellent rubber lubrication
- Excellent release and sealing properties
- Resistant to oxidation
- Show little tendency to dry out in service
- Permitted for food contact use under FDA Regulation 21 CFR 175.300
- Listed under NSF Standard 51 for use in food processing equipment
- Listed under NSF Standard 61 for use in potable water applications

COMPOSITION

- Grease like materials containing an inert amorphous silica filler in combination with selected polydimethyl silicone fluids

Dimethyl silicone compound for a variety of lubrication and protection applications

APPLICATIONS

Dow Corning® 7 Release Compound can be used in applications including:

- Mold release agent for foundry shell and core molds
- Break-in treatment for bladders on tire presses
- Rubber lubricant and preservative
- Release agent for adhesives and glues
- Cable-pulling lubricant to draw rubber-covered cable through conduit
- Release agent for plastic extruders and processing equipment
- Release agent for plastic film packaging machines

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			
CTM ¹ 0176	Color		White, translucent
CTM 0191	NLGI		#1
	Penetration, worked 60	mm/10	270
	worked 100,000	mm/10	322
CTM 0033A	Bleed, 24 hr/200°C (392°F)	%	6.8
CTM 0033A	Evaporation, 24 hr/200°C (392°F)	%	0.8
	Service Temperature Range	°C	-40 to 204
		°F	-40 to 400
CTM 0022	Specific Gravity at 25°C (77°F)		1.0
Electrical			
CTM 0112	Dielectric Constant,		
	at 100 Hz		2.85
CTM 0112	at 100 kHz		2.83
	Dissipation Factor,		
	at 100 Hz		<0.0001
	at 100 kHz		<0.0001
CTM 0114	Dielectric Strength, 50 mil gap	volts/mil	>450
	Volume Resistivity at 23°C (73°F)	ohm-cm	2.8 x 10 ¹⁵
CTM 0171	Arc Resistance	seconds	126

¹CTMs (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTMs are available upon request.

DESCRIPTION

Dow Corning 7 Release compound is a versatile, heat stable, highly effective silicone release agent. Used with plastics, rubber, metals and adhesives, it gives long-lasting release, yet remains inert to most materials.

LISTINGS/ SPECIFICATIONS

Dow Corning 7 Release Compound is permitted for food contact use under FDA Regulation 21 CFR 175.300, covering polymeric coatings applied as continuous film over a metal substrate. Additionally, this compound is listed under NSF Standard 51 for use in food processing equipment and NSF Standard 61 for use in potable water applications.

HOW TO USE

For best results, clean and dry surfaces before application.

Dow Corning 7 Release Compound can be applied by hand, by specially designed automated equipment, or by brushing or wiping. When using some high pressure dispensing equipment, separation and compaction can occur. Certain designs of grease guns may seize with silicone compound; test prior to using.

USE LIMITATIONS

Dow Corning 7 Release Compound should not be applied to any surface that will be painted or finished. Such coatings may not adhere to the silicone-treated surfaces. If contaminated by a silicone coating, parts can be wiped or washed with solvent or washed with detergent. To O-rings or other components made from silicone rubber because they can deteriorate the silicone rubber. This compound will also slightly swell natural butyl rubbers. Any rubber should be tested for excessive swell or shrinkage.

Because each application may vary in chemical composition, pressure, flow velocity, relubrication requirements and equipment design, the silicone compound should be tested before adopting for regular use.

This compound is not intended for use with liquid oxygen or other strong oxidizing chemicals and should not be used in applications requiring LOX compatibility.

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

SHIPPING LIMITATIONS

None.

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. 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 ON THE DOW CORNING WEB SITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at 25°C (77°F), *Dow Corning 7* Release Compound has a shelf life of at least 60 months from date of manufacture. Refer to product packaging for "Use By" date.

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.

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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