

Product Information

Specialty Lubricants

DOW CORNING

Dow Corning® 5 Compound

FEATURES

- Nonconductive
- Water repellent
- Long lasting
- Easy to apply
- Helps prevent formation of conductive paths

COMPOSITION

- Grease-like silicone paste with phenylmethyl-based fluid

Dielectric compound used on insulators and bushings; as a lubricant for high-current switches

APPLICATIONS

- Applications where improved metal-to-metal lubricity (compared to other *Dow Corning*® brand silicone compounds) is needed
- To help prevent arcing and flashovers on insulators and bushings
- As a contact lubricant on high-voltage equipment
- To lubricate static and dynamic O-ring seals in hot-melt adhesive equipment
- To help prevent rust and corrosion on insulator threads and bolts; also helps in removal of insulators and hardware for replacement
- As a water-repellent filling material to help prevent moisture from traveling inside the rubber jacket of service entrance cable (can be injected using a grease gun with a needle-type nozzle)
- To help prevent oxidation and corrosion on contacts and band-tightening screws of socket-type watt-hour meters

TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Method	Test	Unit	Result
Physical			
CTM ¹ 0176	Color		Translucent light gray
ASTM D 1403	Penetration		
	Unworked		200
	Worked 60 strokes, maximum		210
Fed Std 791-321.2	Bleed, 24 hours/200°C (390°F)	percent	3.5
Fed Std 791-321.2	Evaporation, 24 hours/200°C (390°F)	percent	1
	Service Temperature Range	°C (°F)	-54 to 232 (-65 to 450)
CTM 0220	Specific Gravity at 25°C (77°F)		1.0
Electrical			
ASTM D 150	Dielectric Constant at		
	100 Hz		2.99
	100 kHz		2.94
ASTM D 618	Dissipation Factor at		
	100 Hz		<0.0003
	100kHz		<0.0001
ASTM D 149	Dielectric Strength, 50-mil gap	volts/mil	545
ASTM D 991	Volume Resistivity at 23°C (73°F)	ohm-cm	1.1 x 10 ¹⁵
ASTM D 495	Arc Resistance	seconds	101

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

DESCRIPTION

Dow Corning[®] 5 Compound is a grease-like material containing an inert amorphous silica filler in combination with selected dimethyl and phenylmethyl silicone fluids. This nonconductive compound is used primarily for applications requiring compatibility with rubber, metal, and plastic.

Specific features include:

- Easy application by hand, wiping, brushing, or automated equipment
- Room-temperature consistency over a wide range of hot and cold temperatures
- Serviceable temperature range of -54 to 232°C (-65 to 450°F) – a significant improvement over other silicone compounds
- Resistance to oxidation, moisture, and salt spray
- Virtually inert and nonvolatile

HOW TO USE

Dow Corning 5 Compound can be applied by hand, brush, wipe, or specially designed automated equipment. However, certain dispensing equipment may seize with silicone compounds, so testing is recommended prior to use.

If a thinner consistency is needed, the compound can be dispersed in *Dow Corning*[®] brand OS Fluids or other solvents and applied by brushing, dipping, or spraying.

Note: When using any solvent, always provide adequate ventilation. Follow precautions on solvent container label.

Dow Corning 5 Compound can be cleaned from a surface by wiping or washing with *Dow Corning* OS Fluids or other solvents, or by washing with detergent.

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 FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY CALLING YOUR GLOBAL DOW CORNING CONNECTION.

USABLE LIFE AND STORAGE

Dow Corning 5 Compound has a shelf life of 60 months from date of manufacture. Refer to product packaging for “Use By” date.

PACKAGING

Dow Corning 5 Compound is supplied in 150-g (5.3-oz) tubes and 3.6- and 18.1-kg (8- and 40-lb) pails, all weights net.

LIMITATIONS

Dow Corning Silicone Compounds should not be applied to any surface that will be painted or finished. Such coatings may not adhere to the silicone-treated surfaces.

Not recommended for use with highly oxidative chemicals (e.g., liquid chlorine, liquid oxygen). Not recommended as a lubricant in metal bearings.

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

SHIPPING LIMITATIONS

None.

WARRANTY INFORMATION

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.

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.