

NOVAGARD® SILICONES

G687™ Specification Data

DESCRIPTION

Novagard® G687 is a grease-like material formulated with select polydimethyl siloxane fluids in combination with inert, amorphous silica fillers. G687 is an excellent water barrier with superior corrosion protection properties.

APPLICATIONS

Designed for use as a dielectric compound on high voltage insulators, Novagard G687 reduces the opportunity for dirt and moisture to create arcing across the insulator. G687 prevents the formation of a conducting film of water thereby eliminating any arc-over under wet conditions. The silicone engulfs, and encapsulates any water-borne, hydrophilic particles so that the insulator remains water repellent even in dusty, highly conductive atmospheres. G687 is also an excellent mold release and rubber lubricant. The compound may be applied by wiping, brushing or by spraying.

RESTRICTIONS

Do not use in or around highly oxidative chemicals such as liquid oxygen or peroxides.

AVAILABILITY

Novagard G687 is available in 5.3 ounce tubes, 1-gallon pails, 5-gallon pails, and 55-gallon drums.

STORAGE

Novagard G687 has a shelf-life of eighteen (18) months from the date of manufacture, as indicated by the lot number, when stored in the original, unopened container at, or below, 100°F.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Translucent paste
Penetration (worked 60X)	ASTM D 217	200-300
Bleed	200°C / 24 hours	10.0 % maximum
Evaporation	200°C / 24 hours	3.0 % maximum

PRECAUTIONS

Silicone greases may be cleaned with non-polar solvents such as toluene, hexane and mineral spirits. Whenever using solvents be certain to observe all proper, safety precautions. Not for application on surfaces that are to be painted

Consult and obey all applicable local, state and federal regulations for disposal of solvent and silicone waste. For additional information consult product M.S.D.S.

ADDITIONAL INFORMATION

Novagard believes that the information provided is a true and accurate description of the typical characteristics of the aforementioned product; however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy and safety.

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		1.02 - 1.06
Water Washout	ASTM D 1264	3.00 %
Volume Resistivity	ASTM D 257	$5.5 \times 10^{14} \Omega\text{-cm}$
Dissipation Factor	ASTM D 150	-0.0005
Dielectric Constant	ASTM D 150	2.74
Dielectric Strength 10 mil gap	ASTM D 149	1000 volts/mil

*The values outlined reflect testing that was conducted on laboratory prepared specimens, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information.

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