Novagard® G687
Specification Data

DESCRIPTION
Novagard G687 is a grease-like material formulated with select polydimethyl siloxane fluids in combination with inert, amorphous silica fillers. Novagard 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. Novagard 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 repellant even in dusty, highly conductive atmospheres. Novagard 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 sixty (60) months from the date of manufacture, as indicated by the lot number, when stored in the original, unopened container at, or below, 100ºF.

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 S.D.S.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Translucent Paste
Penetration (unworked)	ASTM D217	200 - 300
Bleed	200°C/24 hours	10.0% maximum
Evaporation	200°C/24 hours	3.0% maximum

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		1.02 – 1.06
Water Washout	ASTM D1264	3.00 %
Volume Resistivity	ASTM D257	5.5 X 10^{14} Ω-cm
Dissipation Factor	ASTM D150	-0.0005
Dielectric Constant	ASTM D150	2.74
Dielectric Strength 10 mil gap	ASTM D149	1000 v/mil

*The values outlined reflect testing that was conducted under laboratory conditions, 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.

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.

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