NOVAGARD® *SILICONES*

G641™ Specification Data

DESCRIPTION
Novagard® G641 is a heat transfer compound that is formulated with select polydimethyl siloxane fluids in combination with metallic oxide fillers to provide superior thermal conductivity.

APPLICATIONS
Designed for use as a heat transfer compound in both the electrical, and the electronic industries, Characterized by its high thermal conductivity, high dielectric constant, and high dissipation factor, G641 is an ideal material for use in thermocouple wells, power diodes, transistors, semi-conductors, ballasts among various other applications. G641 exhibits excellent long-term storage stability, without the oil separation that is common to other brand names.

RESTRICTIONS
Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine or peroxides. Not recommended for surfaces that are to be painted.

AVAILABILITY
Novagard G641 is available in 5-ounce squeeze tubes, 1-pint cans, 1-gallon pails, 5-gallon pails, and 55-gallon drums.

STORAGE
Novagard G641 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		White paste
Penetration (worked 60X)	ASTM D 217	240-320
Bleed	200°C / 24 hours	1.0 % maximum
Evaporation	200°C / 24 hours	2.0 % maximum
Specific Gravity		2.4 minimum

PRECAUTIONS
Silicone compounds 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
Thermal Conductivity		0.7 W / m K
Volume Resistivity	ASTM D 257	1.2 X 10^{15} Ω-cm
Dissipation Factor	ASTM D 150	0.0074
Dielectric Constant	ASTM D 150	4.81
Dielectric Strength 10 mil gap	ASTM D 149	300 v/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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