

### DESCRIPTION

Novagard<sup>®</sup> 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 <sup>15</sup> Ω-cm |
| Dissipation Factor                | ASTM D 150  | 0.0074                      |
| Dielectric Constant               | ASTM D 150  | 4.81                        |
| Dielectric Strength<br>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.

Novagard **Solutions**<sup>™</sup>

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