

# TIM-Consultants

Thermal Interface Material Specialist

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## ***Instructions for Use***

The Matrix and Quantum line of thermal greases are high performance, thixotropic materials. Once you begin to mix the material, the viscosity will decrease significantly and it will be easy to apply. Once applied, the greases will again become rigid and therefore will not flow; while maintaining adequate thermal coverage between your substrate (i.e. heat sink) and heat producing device (i.e. CPU). Its unique formula won't harden, dry out, settle or oxidize.

### **Storage:**

Keep container lid closed or syringe cap on when not in use. Store at room temperature.

### **Application:**

For Best Results: Mix well before using (bulk container only). Spread on a uniform coating thickness between 0.003" to 0.006" across the thermal substrate in an area large enough to cover the heat producing component. For large volume applications, automatic dispensing or silk screening is recommended.

#### Silk Screening:

Place heat sink approximately 1 inch under the taut silk screen. Place a dollop of thermal grease across one side of the screen. Run a hard rubber (70 – 90 Shore A durometer) squeegee across the dollop passing across the screen. Turn the hard rubber squeegee over to pass the screened grease a second time with the clean side of the squeegee. Lift off the screen to reveal the printed grease.

#### Stencil Printing:

Place the heat sink under the stencil. Place a dollop of thermal grease across one side of the stencil. Run a hard rubber (70 – 90 Shore A durometer) squeegee across the dollop passing across the stencil. Repeat if necessary. Remove the stencil to reveal the printed grease.

#### RECOMMENDED - Pneumatic or Hand (Single Syringe) Dispensing:

Dispense approximately 0.25g of thermal grease per in<sup>2</sup> in an X or a ● pattern in the middle of the heat sink. When pressure is applied to the grease pattern, it will spread yielding uniform coverage.

### **Removal:**

Use a dry cloth or paper towel to wipe away the majority of the compound. Fully saturate the remaining residue with several drops of Arctic Silver's ArctiClean 1, Acetone or IPA and wait 30 seconds before wiping off with a different dry cloth or paper towel.

### **First Aid:**

Please read the MSDS before using or handling this product.  
For further questions, please contact TIM Consultants