**LORD® 6100HV-1 Silver Conductor**

**Description**
LORD® 6100HV-1 silver conductor is a one-component, thermosetting conductive epoxy designed primarily for surface mount attachment of electronic component devices. It is recommended for die attach and discrete component surface mount applications.

**Features and Benefits**

**Application Diversity** – may be applied by screen printing or syringe.

**Excellent Adhesion** – cured film provides superior electrical and mechanical properties with excellent bonding to many types of materials, including epoxy laminate and alumina.

**Convenient** – solvent-free paste with excellent handling properties.

**Application/Processing**

**Mixing** – Before using, allow material temperature to adjust to ambient conditions. Consult handling instructions** for specific guidelines.

Once thawed, gently stir material. If dilution is needed, use LORD 3987 thinner.

**Applying** – Apply material by screen printing or syringe dispensing. For screen printing, use a 80-250 mesh stainless steel screen with 1.0-1.5 mil organic emulsion backing. Use of a medium to hard silicone squeegee is recommended.

**Drying/Curing** – Allow material to self level for 15 minutes at room temperature. Cure parts at 150°C for 30-60 minutes. Optimum cure schedule will vary depending on application.

**Cleanup** – Clean screens with conventional organic solvents such as acetone or isopropyl alcohol.

**Typical Properties***

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Appearance</td>
<td>Silver Paste</td>
</tr>
<tr>
<td>Viscosity, Kcps @ 25°C</td>
<td>60-75</td>
</tr>
<tr>
<td>Brookfield HBT</td>
<td></td>
</tr>
<tr>
<td>Spindle CP-51, 1 rpm</td>
<td></td>
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<tr>
<td>Cured</td>
<td></td>
</tr>
<tr>
<td>Resistivity, mohms/sq/mil</td>
<td>&lt; 50</td>
</tr>
<tr>
<td>Dried @ room temperature for 15 min</td>
<td></td>
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<tr>
<td>Cured @ 150°C for 30 min</td>
<td></td>
</tr>
<tr>
<td>Die Shear Strength, Kpsi</td>
<td>8-10</td>
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<tr>
<td>Bare Si die on alumina</td>
<td></td>
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</tbody>
</table>

*Data is typical and not to be used for specification purposes.
Shelf Life/Storage
Shelf life is six months from date of shipment when stored at -20°C in original, unopened container. Do not store near heat, sparks or open flame.

This material is shipped frozen. Material should be stored frozen until ready for application. Consult handling instructions** for thawing.

Cautionary Information
Before using this or any LORD product, refer to the Material Safety Data Sheet (MSDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

** Handling instructions are available on LORD.com.

Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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