**COTRONICS® THERMALLY CONDUCTIVE EPOXY**

**Duralco® Thermally Conductive Adhesives** and potting compounds provide the heat dissipation required for many High Temperature Electronic and Industrial applications. These ultra-temperature adhesives combine Cotronics® unique polymer system and special thermally conductive fillers to provide continuous service up to 340°C. Duralco® conductive Adhesives have excellent adhesion to glass, ceramics, metals and plastics. Resistant to most chemicals and solvents.

**APPLICATIONS**

- Removing the heat generated in many electronic applications including semi-conductors, rectifiers, high power devices, etc.
- Heat transfer applications, including bonding copper coils to reaction vessels for heating and or cooling. Heat tracing adhesive, etc.
- Fabrication of heated, plastic forming tools, molds, etc.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Composition</th>
<th>Thermally Conductive Epoxy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duralco®</td>
<td>128</td>
</tr>
<tr>
<td>Charge</td>
<td>Ceramic</td>
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<tr>
<td>Viscosity cps</td>
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<tr>
<td>Thermal Conductivity W/m.K</td>
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<td>Resistivity Ω.cm</td>
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<td>Cure Cycle h @ 24°C</td>
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<tr>
<td>Cure Cycle m @ 95°C</td>
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</tbody>
</table>

For pricing information or general queries, please email: info@final-materials.com
260°C - DURALCO® 128
Hi-electrically Resistant Ceramic based Epoxy

Duralco® 128 is highly thermally conductive, electrically resistant adhesive and potting compound. The ceramic fillers are carefully chosen to provide high thermal conductivity and high dielectric strength. Just mix the resin and hardener, apply and cure at room temp. Curing may be accelerated with mild heat.

260°C - DURALCO® 132
Hi-thermal Conductive Aluminium based Epoxy

Duralco® 132 is an Aluminium Metal Filled Epoxy that cures at room temperature to form machinable, thermally conductive bond lines. 132 provides the maximum heat transfer available in a 500°F epoxy system. Can be supplied as a non-sag putty, Duralco® 132P, for heat tracing applications.

Users report: 132 bonds copper coils to vessels for rapid heating and cooling in a critical chemical process. Used for bonding, assembling and heat tacking applications.

315°C - DURALCO® 133
High-temperature Aluminium based Epoxy

Duralco® 133 is a two component, heat curing, Aluminium Filled, Conductive Epoxy. 133 combines the excellent properties of Duralco® 132 with Cotronics® higher temperature epoxy systems making it suitable for applications requiring up to 315°C service. Cures with mild heat to form thermally conductive bond lines and heat transfer medium. 133 is suitable for high temperature tooling. It is readily machinable and ideal for all kinds of repairs and as a construction material.

260°C - DURALCO® 134
Electrically Resistant Grease Ceramic based Epoxy

Duralco® 134 thermally conductive grease, is a non-hardening, electrically insulating and thermally conductive grease. It is ideal for use between components and heat sinks. 134 retains its paste like consistency, enabling parts to be easily removed and replaced. Will not dry out even after long periods of time. Usable to 260°C.

Users Report: 134 replaced silicone-based grease in manufacturing of high-end digital cameras.

260°C - DURALCO® 135
Thermally Conductive Grease Aluminium based Epoxy

Duralco® 135 is filled with an ultra-fine, aluminium metal powder to provide the maximum possible heat transfer rate in a non-hardening grease. Used in delicate military applications where excess heat build-up can cause serious failures. 135 is commonly used in many industrial applications where electrical resistance is not critical.

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