

PRODUCT DESCRIPTION:

AA-DUCT 80 is a single component solvent free, heat curing, conductive epoxy that was designed for semiconductor component mounting on rigid as well as flexible surfaces such as rubbers and plastics where maximum electrical and thermal conductivity is required.

AA-DUCT 80 offers excellent mechanical, electrical, and physical properties at continuous operating temperatures up to 175°C. This versatile silver conductive adhesive can be used for chip bonding in micro-electronic hybrid circuit fabrication.

AA-DUCT 80 has also been used in microwave applications for EMI and FRI shielding, for assembly and repair of circuit boards and electronic component manufacturing.

AA-DUCT 80 is a smooth, soft paste that can be applied by hand application, automatic dispensers stencils, screen-printing, transfer or stamping techniques. It is available in both a lower and higher viscosity grade for use in a variety of dispensing equipment and application techniques.

CURED PROPERTIES:

Hardness, Shore D	83
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PRODUCT PROPERTIES:

Appearance	Silver
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Cure Type	Heat cure
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Benefits	<ul style="list-style-type: none"> • High strength • Excellent mechanical, electrical properties
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Substrates	Excellent choice aluminum, copper, rubbers, plastics, magnesium, steel, bronze, nickel, ceramic, glass, phenolic and G-10 epoxy glass boards.
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CURE SCHEDULE:

1 hour	@ 125°C
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15 minutes	@ 150°C
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4 minutes	@ 175°C
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UNCURED PROPERTIES:

Viscosity @ 25 °C cps	200,000
Shelf Life	4 months Room Temperature

	< @ 25°C
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	9 months refrigerated
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THERMAL PROPERTIES:

Thermal Conductivity, W/mK	2.31
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Operating Temperature	-55 to +175
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	Intermit. to 325
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ELECTRICAL PROPERTIES:

Volume Resistivity ohm. cm	<0.0005
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HOW TO USE:

1. Carefully clean and dry all surfaces to be bonded.
2. Apply AA-DUCT 80 adhesive to the prepared surfaces.
3. Some separation of components is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.

AVAILABILITY:

This epoxy can be supplied in many different packages.

GENERAL INFORMATION:

For safe handling information on this product, consult the Safety Data Sheet.

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