

PRODUCT DESCRIPTION:

AA-DUCT 24 is a Two component, room temp cure, micro particle filled silver conductive epoxy that was designed for very small applications requiring particle sizes no larger than 2 microns. This high performance conductive epoxy cures at elevated temperatures making it ideally suited for applications requiring the smaller possible conductive particles.

AA-DUCT 24 offers excellent mechanical, electrical, and physical properties at continuous operating temperatures up to 180°C AA-DUCT 24 is a smooth, soft paste that can be applied by hand application, automatic dispensers, screen-printing, transfer or stamping techniques.

It is an electrically conductive adhesive that will form a complete percolation network within 20 micron holes.

CURED PROPERTIES:

Hardness, Shore D	79
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PRODUCT PROPERTIES:

Appearance	Silver
Cure Type	Room Temp or Heat cure For The optimum time and temperature will depend on the mass of compound. Longer cure schedules may be needed when curing very minute amounts.
Benefits	High strength Excellent mechanical, electrical properties
Substrates	Excellent choice for Integrated Circuits, aluminum, magnesium, steel, bronze, nickel, ceramic, glass.

AVAILABILITY:

This epoxy can be supplied in many different packages.

GENERAL INFORMATION:

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

CURE SCHEDULE:

24 hours	@ room temp
1 hour	@ 60°C
10 minutes	@ 175°C

UNCURED PROPERTIES:

Viscosity @ 25 °C	Medium
Shelf life at room temp	12 Months
Density	2.9

THERMAL PROPERTIES:

Thermal Conductivity, btu/hr/ft2/°F/in:	14.1
Coefficient of Thermal Expansion	60x 10 ⁻⁶ (in/in) C
Operating Temperature	-55°C to +180°C
	Intermit. to 300

ELECTRICAL PROPERTIES:

Volume Resistivity ohm. cm	0.001
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HOW TO USE:

- Carefully clean and dry all surfaces to be bonded.
- Apply AA-DUCT 24 adhesive to the prepared surfaces.
- 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.
- cure according to the cure schedule above.

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