

PRODUCT DESCRIPTION:

AA-DUCT S80 is an electrically conductive, silver-filled, 1-part epoxy adhesive formulated for lower temperature curing. AA-DUCT S80 is smooth, non-sagging, and bonds well to a wide variety of substances.

AA-DUCT S80 has been formulated to have a low T_g to allow minimal stress on substrate during temperature changes.

AA-DUCT S80 makes good bonds where soldering is not an option, such as heat-sensitive components, and bonds well to glass, metals, Etc.

PRODUCT PROPERTIES:

Appearance	Silver
Cure Type	Heat cure
Benefits	<ul style="list-style-type: none"> • Low cure temperatures at 80°C (176°F) • No mixing required. • Die Attach • High strength • Excellent mechanical & electrical properties
Substrates	Excellent choice for Integrated Circuits, aluminum, steel, bronze, nickel, ceramic, glass, Etc.
Operating Temperature	-40°C to 150°C (302°F)
Pot Life	1 months at 25°C (77°F) 6 months at -40°C

UNCURED PROPERTIES:

Viscosity @ 25 °C cps	Thixotropic paste
Shelf Life	1 months at 25°C (77°F) 6 months at -40°C
Density	3.31

CURE SCHEDULE:

30 minutes	@ 80°C (176°F)
15 minutes	@ 100°C (212°F)
8 minutes	@ 120°C (248°F)

CURED PROPERTIES:

Hardness, Shore D	81
Volume Resistivity ohm-cm	2.5 x 10 ⁻²
Adhesive Bond Strength psi	1350
Thermal Conductivity, W/m.K	3.5
Coefficient of Thermal Expansion (in/in) C	57x 10 ⁻⁶
Lap Shear Strength, psi	9200

ELECTRICAL PROPERTIES:

Glass Transition Temp, T_g	45.0 °C, 113 °F
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GENERAL INFORMATION:

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

HOW TO USE:

1. Carefully clean and dry all surfaces to be bonded.
2. Apply AA-DUCT S80 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.

Atom Adhesives

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