

Conductors

C8728



Pb and Cd Free Silver Conductor

Description:

C8728 is a lead, nickel and cadmium free Ag conductor that yields a smooth, dense film on alumina. This material is recommended for general purpose and for large ground plane areas. C8728 provides excellent solderability, void free soldering and good solder leach resistance.

● Key Benefits:

- Lead, nickel and cadmium free
- Excellent fired film density
- High aged adhesion
- Excellent solderability with Sn62 and Sn95/Ag5

● Typical Properties:

Resistivity:

< 3.0 milliohms per square
at 12 microns fired film thickness.

Adhesion:

2x2 mm pad
Sn62/Pb36/Ag2, 230°C

Initial:	≥5.0 lbs
48hrs. @ 150°C:	≥5.0 lbs
1000hrs. @ 150°C:	≥4.0 lbs

Solderability:

5 second dip, RMA Flux

Sn62/Pb36/Ag2, 230°C	≥ 95%
Sn95/Ag5, 260°C	≥ 95%

Solder Leaching:

10sec dips, RMA flux

	<u>#of Dips</u>	<u>% Line Lost</u>
Sn62/Pb36/Ag2, 230°C	1	≤ 10%
Sn95/Ag5, 260°C	1	≤ 10%

Coverage:

80 cm²/gm at 12 micron fired film thickness.

Viscosity

90-150 Kcps Brookfield HBT
SC4-14 spindle and 6R utility cup
@ 10 rpm, 25°C,

Solids:

80% ± 1.5%

● Recommended Processing Guidelines:

Printing:

280 mesh stainless steel screen.
0.5 mil emulsion

Drying:

Allow to level at room temperature for 5-10 minutes.
Dry at 150°C for 10 minutes.

Firing:

850°C peak temperature
Dwell time of 10-12 minutes.
Total cycle time of 36-60 minutes.

Thickness:

Wet:	33 - 37 microns
Dried:	23 - 27 microns
Fired:	10 - 15 microns

Thinner:

RV-372 (Terpineol)

Warranty:

Material guaranteed to meet specifications
for 6 months from date of shipment.

Storage:

Store in a dry location at 5°C-25°C.

DO NOT REFRIGERATE.

Allow paste to come to room temperature
prior to opening.
Spatulate well before using.

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The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

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