

Advanced Materials

CL40-8131

Co-Firing Silver/Palladium Top Conductor

Description:

CL40-8131 is an Ag/Pd conductor with low resistivity and provides excellent compatibility with Heratape® CT 2000 during the co-firing process.

CL40-8131 is optimized for screen-printing of top conductor solder pads and traces.

● **Key Benefits:**

- Compatible with Heratape® CT 2000
- Excellent results with Pb free solder
- Good solder leach properties
- Pb and Cd free

● **Typical Properties:**

Resistivity:

≤ 15 milliohms per square at 19 microns
(cofired with CT2000 tape)

Viscosity:

125-175 Kcps, Brookfield HBT, SC4-14 spindle and 6R cup @ 10 rpm, 25°C.

Adhesion:

80 x 80 mil pad
RMA flux

	<u>63Sn/37Pb</u>
Initial:	≥ 4 lbs
Aged:	≥ 2 lbs

(72 hours @ 150°C)

Solderability:

RMA flux

10s

10s + (3x2s)

	<u>63Sn/37Pb</u>
	100%
	100%

Solids:

85 ± 1.0%

● **Recommended Processing Guidelines:**

Printing:

290 or 325 mesh stainless steel screen

Drying:

Maximum temperature of 80°C for 10 to 20 minutes

Firing:

870-880°C peak
Ramp from burnout to firing peak: 5°C/minute
Dwell time at peak: up to 30 minutes
Total cycle time of up to 12 hours
(Most easily achieved in a box oven).

Compatibility:

Heratape® CT2000 Materials System

Thinner:

RV 507 (Texanol®)

Warranty:

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

Storage:

Store in a dry location at 5-25°C.
DO NOT REFRIGERATE.
Allow paste to come to room temperature before 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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