

Conductors

CL47-8830



Pb and Cd free Silver/Platinum Conductor

Description:

CL47-8830 is a lead, nickel and cadmium free Ag/Pt conductor, designed for highly leach resistant applications. CL47-8830 is a new member of Heraeus' line of lead free conductors with excellent fired film density, excellent solder leach resistance and superior aged adhesion.

● Key Benefits

- Lead, nickel and cadmium free
- Excellent leach resistance
- Dense fired film
- Correct choice for small geometries that require no leaching in Pb free solders.

● Typical Properties:

Resistivity:

≤ 75 milliohms per square
at 12 microns fired film thickness.

Viscosity

190 -250 Kcps
Brookfield HBT SC4-14 spindle
and 6R utility cup @ 10 rpm, 25°C

Solderability:

80 x 80 mil pads
SAC305 @ 255°C ± 5°C
5 ± 1 sec. dip
RMA flux
> 90% solder coverage

Solder Leaching:

30 x 30 mil pads
SAC305
255°C, RMA flux
≤ 10% loss after 10x10 sec dips

Adhesion:

80 x 80 mil pad
SAC305 @ 255°C ± 5°C
Initial: ≥ 5 lbs
48 hours @ 150°C: ≥ 4 lbs
1,000 hours @ 150°C: ≥ 4 lbs

% Solids:

79.0 ± 1%

● Recommended Processing Guidelines:

Printing:

280 mesh stainless steel screen.
0.5 mil emulsion, 1.3 mil wire diameter, 45° angle

Drying:

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

Film Thickness:

Wet: 34-38 microns
Dried: 22 - 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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