

Conductors

CL49-8241



Silver/Palladium/ Platinum

Description:

CL49-8241 is a lead, cadmium and nickel free high performance, mixed bonded Ag/Pd/Pt conductor material. It offers cost savings over standard Ag/Pd/Pt formulations while maintaining the advantages of leach resistance and aged adhesion.

CL49-8241 is supplied with a rheology, which results in a dense, uniform fired film.

● **Key Benefits:**

- Pb, Cd and Ni free
- Low cost
- Excellent solderability and leach resistance.
- Low resistivity
- Excellent aged adhesion

● **Typical Properties:**

Resistivity:

≤ 5.0 milliohms per square at 12 microns fired film thickness

Viscosity:

100-160 kcps, Brookfield HBT SC4-14 spindle and 6R utility cup @ 10 pm, 25°C

Solderability:

Sn62/Pb36/Ag2
@ 230°C, RMA flux
5 second dip: 100%

Solder Leaching:

Sn62/Pb36/Ag2
@ 230°C, RMA flux
up to 5 x 10 sec dip

Adhesion:

Sn62/Pb36/Ag2
@ 230°C, RMA flux; 80 x 80 mil pads
Initial: ≥ 6 lbs
48 hours @ 150°C
 ≥ 4 lbs (1 x 850°C)
 ≥ 5 lbs (5 x 850°C)

1,000 hours @ 150°C
 ≥ 4 lbs (1 x 850°C)
 ≥ 5 lbs (5 x 850°C)

Solids:

80.25 ± 0.75%

● **Recommended Processing Guidelines:**

Printing:

280 – 325 stainless mesh screen
0.5 mil emulsion
1.1 mil wire

Coverage:

85 cm²/gram at 12 microns fired film thickness

Drying:

Dry at 150°C for 5 to 10 minutes

Firing:

850°C peak temperature
Dwell time at peak temperature
of 9 - 11 minutes

Film Thickness:

Dried: 20-25 microns
Fired: 10-15 microns

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 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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