PCC11970

Conductor

Description

PCC11970 is a Pb and Cd free palladium silver conductor composition designed for use in the manufacture of hybrid circuitry. PCC11970 employs a mixed oxide and glass bonding system that results in a dense, solderable fired film with high initial and aged adhesion.

Key Features

- Solderable fired films Excellent initial and aged adhesion

Typical Properties	
Viscosity	200 – 260 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Coverage	70-75 cm2 /gm (calculated from 50 micron wet film)
Resistivity	≤ 25 milliohms per square at 25 microns fired film thickness
Solderability	62Sn/36Pb/2Ag, 230°C 0.08 in x 0.08 in pads 3 seconds dip 100% Coverage
Solder Leaching	Sn62/Pb36/Ag2, 230°C 10mil wide conductor trace ≤ 10% loss

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Recommended Processing Guide	
Printing Parameters	200 - 325 mesh stainless steel screen 0.5 mil emulsion Allow parts to level at room temperature for 1 – 3 min-utes before drying.
Printing Speed	≤ 25 cm/sec. (10 in/sec)
Drying Temperature	150°C for 5 - 10 minutes.
Process Temperature (TDS)	850°C peak temperature Dwell time of 10 minutes at peak
Film Thickness	9-15 microns
Line Definition	≥ 125 microns (5 mils)
Recommended Thinner	Heraeus RV-372

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Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

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, as settling may occur during storage.

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