

PCC11972

Component Metallization

Description

PCC11972 is a low temperature firing silver paste designed to screen print solderable electrodes onto a variety of electrical ceramic component devices. The fired film forms a highly adherent bond to many types of substrates, including piezo-electric transducers (PZTs), NTC thermistors, alumina, steatite, and porcelain. The metalized electrode is solderable for external lead attachment.

Key Features

- RoHS compliant* REACH compliant** Lower firing temperature (< 700°C) Designed for piezo-electric transducers (PZTs), NTC thermistors, alumina, steatite, and porcelain substrates



Typical Properties

Viscosity	24 - 30 kcps Brookfield RVT, Spindle #7 @ 20 rpm, 25°C _x000D_
Resistivity	≤ 3 milliohms per square at 25 microns fired film thickness
Solderability	62Sn/36Pb/2Ag @ 230°C 2 -3 seconds dip > 99% coverage

Recommended Processing Guide

Printing Parameters	60-200 mesh stainless steel screen 0.7-1.0 mil emulsion. Allow parts to level at room temperature for 5 – 10 minutes before drying.
Drying Temperature	150°C for 10 minutes
Process Temperature (TDS)	650°C -700°C peak firing temperature Dwell time of 8-12 minutes at peak Total cycle time of 45-60 minutes.

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Recommended Processing Guide (continued)

Film Thickness	9 - 15 microns
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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