

PCC11866

Component Metallization

Description

PCC11866 is a lead and cadmium free 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 piezoelectric transducers (PZTs), NTC thermistors, alumina, steatite, and porcelain. The metalized electrode is solderable for external lead attachment.

Key Features

- Lower firing temperature (< 700 °C) Designed for piezoelectric transducers (PZTs), NTC thermistors, alumina, steatite, and porcelain substrates.



Typical Properties

Viscosity	80 – 100 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Solids	76% Ag
Resistivity	≤ 4 mΩ/□ at 25 μm fired film thickness

Recommended Processing Guide

Printing Parameters	60 – 200 stainless steel mesh screens 0.7 – 1.0 mil emulsion Screens can be cleaned using common solvents such as isopropyl alcohol or acetone.
Drying Temperature	150 °C for 10 minutes
Process Temperature (TDS)	Optimum firing parameters depend on substrate composition 650 – 700 °C peak firing temperature Dwell time of 8 – 12 minutes Total cycle time of 45 – 60 minutes

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Recommended Processing Guide (continued)

Film Thickness	9 – 15 µm
Recommended Thinner	Heraeus RV-100

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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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