Heraeus

Electronics

PC10370

Component Metallization

Description

PC10370 is Cd free 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 readily 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

Typical Properties	
Viscosity	100 – 120 kcps Brookfield RVT, Spindle #7 @ 20 rpm, 25°C
Solids	77.0 ± 1.5%
Coverage	68 cm2 /gm at 25 microns fired film thickness
Resistivity	≤ 3.0 milliohms per square at 25 microns fired film thickness.

Recommended Processing Guide	
Printing Parameters	100-250 mesh stainless steel screen 0.4-1.0 mil emulsion Allow parts to level at room temperature for 10 minutes before drying.
Drying Temperature	150°C for 10-15 minutes.

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Recommended Processing Guide (continued)	
Process Temperature (TDS)	550-700°C peak firing temperature Dwell time of 8-12 minutes at peak Total cycle time of 45-60 minutes. Larger parts may require a longer firing profile.
Film Thickness	9 - 15 microns
Recommended Thinner	Heraeus RV-252

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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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