

C8830

Conductor

Description

C 8830 is a low temperature, screen printable, pure silver conductor. This paste exhibits excellent solderability on a wide range of glass substrates with or without coating such as ITO and FTO.

Key Features

- Excellent printability Excellent solder ability and leach resistance Very good conductivity



Typical Properties

Viscosity	C 8830 25 – 40 Pa·s (25°C, D = 75 s-1) C 8830A 40 – 55 Pa·s (25°C, D = 100 s-1)
Solids	C 8830 77.0% ± 1.5% C 8830A 79.5% ± 1.5%
Resistivity	≤ 4.5 mΩ / □ (FFT: 10 μm)
Solderability	Good ≥ 95% (245 °C, 5 s dip) (96Sn/3.5Ag/0.5Cu) (assessment acc. DIN 41850-2 E)

Recommended Processing Guide

Printing Parameters	200 – 400 mesh stainless steel screen
Printing Speed	Up to 20 cm / s
Drying Temperature	Level at room temperature for 5 - 10 minutes. Dry at 150 °C for 10 - 20 minutes
Process Temperature (TDS)	420 – 650 °C (peak) for 10 – 20 minutes, and with a total firing cycle time of c. 30 – 60 minutes

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Recommended Processing Guide (continued)

Film Thickness	C 88302 6 -10 µm C 8830A 8 -13 µm (200 mesh screen, 30µm emulsion)
Line Definition	C 8830A line definition 2: ≥ 150 µm (width and space)
Recommended Thinner	Heraeus HVS 100

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Warranty

Material guaranteed to meet specifications for 3 months from date of manufacturing with proper storage.

Storage

Store in a dry, cool (5 - 25°C), dark place with container tightly shut. Allow paste to come to room temperature prior to opening. Spatulate well before using.

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