

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Component Metallizations

Product Name: CL11-5100

Platinum Conductor

Description

CL11-5100 is a fritless platinum paste, which fires to a pure metal surface. CL11-5100 has a rheology suitable for screen printing.

Key Benefits

- Chemically resistant
- Fritless paste
- Can be used on zirconia or titania bodies

Typical Properties

Metal Type

Platinum

Resistivity

< 60 mΩ/□ at 12 μm fired film thickness

Viscosity

70 – 110 Kcps, Brookfield HAT
#14 spindle and 6R utility cup at 10 rpm, 25 °C

Solids

84.5 ± 1.0 %

Recommended Processing Guidelines

Printing

280 – 325 mesh
0.5 mil emulsion

Drying

90 – 130 °C peak temperature
Cycle time of 10 minutes

Firing

900 – 1200 °C peak temperature
Dwell time of 9 – 11 minutes

Thickness

Dried: 16 – 18 μm
Fired: 10 – 12 μm

Thinner

RV-372

Warranty

Material guaranteed to meet specifications for 6 months from date of shipment.

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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