

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

- REACH¹ and RoHS² compliant
- 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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Legend:

1) REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

* See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request

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