Technical Data Sheet

**THICK FILM MATERIALS**

**Product Type:** Component Metallizations  
**Product Name:** CL11-5100

Platinum Conductor

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**Description**

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

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**Key Benefits**

- REACH® and RoHS® compliant
- Chemically resistant
- Fritless paste
- Can be used on zirconia or titania bodies

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**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

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**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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**Typical Properties**

**Metal Type**

Platinum

** Resistivity**

< 60 mΩ·cm 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 %
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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.