

## Technical Data Sheet

### THICK FILM MATERIALS

Product Type: Component Metallizations

Product Name: CL11-5871



#### Platinum Conductor

##### Description

CL11-5871 is a fritless platinum paste, which fires to a pure metal surface. CL11-5871 has a rheology suitable for screen printing or brushing.

##### Key Benefits

- Chemically resistant
- Fritless paste
- Pure Pt fired surface
- Can be used on Alumina, Zirconia or Titania bodies
- REACH<sup>1</sup> and ROHS<sup>2</sup> compliant

##### Typical Properties

**Metal Type:**  
Platinum

**Viscosity:**  
40 – 100 Kcps Brookfield HBT  
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

**Solids:**  
83.5 ± 1.0 %

##### Recommended Processing Guidelines

**Printing:**  
280 – 325 mesh stainless steel screen  
0.5 mil emulsion

**Drying:**  
150 °C for 10 minutes

**Firing:**  
900 – 1200 °C peak temperature  
Dwell time of 9 – 11 minutes at peak

**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.

## Technical Data Sheet



### Platinum Conductor

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)

**Heraeus Electronics**  
Heraeus Deutschland GmbH & Co. KG  
Heraeusstraße 12 – 14  
63450 Hanau, Germany  
[www.heraeus-electronics.com](http://www.heraeus-electronics.com)

**Americas**  
Phone +1 610 825 6050  
[electronics.americas@heraeus.com](mailto:electronics.americas@heraeus.com)

**China**  
Phone +86 21 3357 5457  
[electronics.china@heraeus.com](mailto:electronics.china@heraeus.com)

**Asia Pacific**  
Phone +65 6571 7677  
[electronics.apac@heraeus.com](mailto:electronics.apac@heraeus.com)

**Europe, Middle East and Africa**  
Phone +49 6181 35 3069, +49 6181 35 3627  
[electronics.emea@heraeus.com](mailto:electronics.emea@heraeus.com)