

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Component Metallizations

Product Name: 6082



Platinum Conductor

Description

6082 is a reactive (metal oxide) bonded platinum paste, which fires to a dense fired surface. 6082 has a rheology suitable for brushing.

Key Benefits

- Chemical resistant
- Fritless, reactive bond paste
- Low resistivity
- Brushable viscosity
- Can be used on Alumina, Zirconia or Titania bodies
- Pb free
- REACH¹ and ROHS² compliant

Typical Properties

Colour

Dark gray-black paste

Viscosity

4620 – 6200 cps Brookfield RVT
SC4 – 14 spindle, 6R utility cup at 50 rpm, 25 °C

% Solids

66.2 ± 1.2 %

FOG

≤ 14 µm (4th streak)

Recommended Processing Guidelines

Printing

280 mesh stainless steel screen
0.5 mil emulsion

Thicknesses:

Wet: 20 – 25 µm
Dried: 10 – 14 µm
Fired: 5 – 9 µm

Coverage

190 cm²/g

Drying

125 °C peak temperature
15 minutes at peak temperature

Firing

850 – 1100 °C peak temperature
Dwell time of 9 – 11 minutes

Thinner:

RV-372

Warranty:

Material guaranteed to meet specifications for 3 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)

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