

Technical Data Sheet



THICK FILM MATERIALS

Product Type: Conductors

Product Name: C3620



Platinum Conductor (Pb Free)

Description

C3620 is a screen printable fritted (Pb free) platinum conductor paste that fires on Aluminum Nitride (AlN) and 96 % Alumina (Al_2O_3) to a pure metal surface.

Key Benefits

- Wire firing temperature window
- HTCR > 3000 ppm/°C
- Compatible with SAC305
- REACH¹ and RoHS² compliant

Typical Properties

Resistivity

≤ 100 mΩ/□ at 12 μm fired film thickness

Adhesion

80 x 80 mil pad
SAC305 at 245 °C, RMA flux
5 second dip ≥ 90 % coverage

Viscosity

180 – 220 Kcps Brookfield HBT
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

Solids

75.5 ± 1.0 %

Recommended Processing Guidelines

Printing

165 – 280 mesh stainless steel screen
0.5 mil emulsion

Drying

150 °C for 10 minutes

Firing

850 – 1400 °C peak temperature
Dwell time of 9 – 11 minutes

Thickness:

Fired: 8 – 12 μm

Thinner:

RV-372

Warranty:

TBD

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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