

## 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<sub>2</sub>O<sub>3</sub>) to a pure metal surface.

#### Key Benefits

- Wide firing temperature window
- HTCR > 3000 ppm/°C
- Compatible with SAC305

#### 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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