

## Technical Data Sheet



### THICK FILM MATERIALS

**Product Type:** Conductors

**Product Name:** C8640



**Pb Free Silver/Copper Conductor**

#### Description

C8640 is a lead-free eutectic Ag/Cu conductor. The rheology is designed for screen printing and is fired in air.

#### Key Benefits

- Low resistivity
- Fires in air atmosphere

#### Typical Properties

##### Resistivity

≤ 7 mΩ/□ at 12 μm fired film thickness

##### Viscosity

100 – 150 Kcps Brookfield HBT  
SC4 – 14 spindle, 6R utility cup at 10 rpm,  
25 °C

##### Solids

81.5 ± 1.0 %

#### Recommended Processing Guidelines

##### Printing

325 mesh stainless steel screen  
0.5 mil emulsion

##### Drying

150 °C for 10 minutes

##### Firing

850 °C peak temperature  
Dwell time of 10 – 12 minutes at peak  
Total cycle time 36 – 60 minutes

##### Thickness:

Wet: 22 – 26 μm  
Dried: 14 – 18 μm  
Fired: 10 – 14 μm

##### Thinner:

RV-507

##### 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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