

## Technical Data Sheet

### THICK FILM MATERIALS

Product Type: Conductors

Product Name: C2360



Pb and Cd Free Silver/Palladium Conductor

#### Description

C2360 is a Pb, Cd and Ni free silver/palladium (6:1) high solids conductor paste designed for hybrid applications utilizing aluminum nitride. It exhibits good solderability and excellent adhesion.

#### Key Benefits

- Excellent solderability
- Excellent adhesion to aluminum nitride
- REACH<sup>1</sup> and ROHS<sup>2</sup> compliant

#### Typical Properties

##### Resistivity

15 – 20 mΩ/□ at 15 μm fired film thickness

##### Adhesion

80 x 80 mil pad – Maruwa AlN Substrate  
Sn62/Pb36/Ag2

Initial: > 4.0 lbs  
1000 hours @ 150 °C: > 3.0 lbs

SAC305

Initial: > 4.0 lbs  
1000 hours @ 150 °C: > 3.0 lbs

##### Solderability

Sn62/Pb36/Ag2 at 230 °C, RMA flux  
> 95 % coverage for 5 second dip  
SAC305 at 250 °C, RMA flux  
100 % coverage for 5 second dip

##### Viscosity

150 – 220 Pa-s, Brookfield HBT, DVIII  
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

##### Solids

82.0 – 84.0 %

#### Recommended Processing Guidelines

##### Printing

280 mesh stainless steel screen

##### Drying

150 °C peak temperature  
Dwell time for 10 to 15 minutes

##### Firing

850 °C peak temperature  
Dwell time for 10 minutes

##### Thickness:

Wet: 34 – 38 μm  
Dried: 22 – 26 μm  
Fired: 13 – 16 μm

##### Thinner:

RV-372

##### Warranty:

Material guaranteed to meet specifications for 6 months from date of shipment.

##### Storage:

Store in a dry location at 20 – 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



### Pb and Cd Free Silver/Palladium 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

**Americas**  
Phone +1 610 825 6050  
electronics.americas@heraeus.com

**China**  
Phone +86 21 3357 5457  
electronics.china@heraeus.com

**Asia Pacific**  
Phone +65 6571 7677  
electronics.apac@heraeus.com

**Europe, Middle East and Africa**  
Phone +49 6181 35 3069, +49 6181 35 3627  
electronics.emea@heraeus.com