

## Conductors

### C6029A



### Pb and Cd Free Platinum/Gold Conductor

**Description:**

C6029A is a lead, cadmium and nickel free Au/Pt/Pd conductor which exhibits excellent solderability, solder leach resistance and Al wire bond adhesion on alumina. Smooth fired film surface with minimal surface glass makes C6029A a good candidate for high reliability applications that require RoHS compliant materials.

● **Key Benefits:**

- RoHS compliant; Pb, Cd and Ni free
- Excellent solderability on alumina and AlN
- Al wire bondable
- Smooth fired surface

● **Typical Properties:**

**Resistivity:**

≤ 95 milliohms/sq at 12 microns  
fired film thickness

**Adhesion:**

80x80 mil pad	<u>96%</u>	<u>AIN</u>
SAC 305, 255°C	≥5 lbs	≥4 lbs

**Solderability:**

SAC 305, 255°C	<u>96%</u>	<u>AIN</u>
5 sec, RMA flux	≥ 90%	≥ 90%

**Leach Resistance:**

30 sec, RMA flux  
SAC 305, 255°C      0% line loss

**Viscosity:**

200-280 Kcps, Brookfield HBT,  
SC4-14 spindle and 6R utility cup@ 10 rpm, 25°C.

**Solids:**

84.0±1.0%

**Wire Bond Adhesion:**

10 mil Al wire  
99.99% Al, Elongation 8.0-13.0%  
Initial:                      > 400 grams

● **Recommend Processing Guidelines:**

**Printing:**

280 stainless steel mesh screen  
0.5 mil emulsion  
1.1 mil wire

**Drying:**

Dry at 150°C for 10 minutes

**Firing:**

850°C peak temperature  
Dwell time of 8-12 minutes

**Fine Line Resolution:**

8 mils (200 microns)

**Thickness:**

Wet: 35-39 microns  
Dried: 21-25 microns  
Fired: 12-16 microns

**Thinner:**

RV-372 (Terpineol)

**Warranty:**

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

**Storage:**

Store in a dry location at 5°C-25°C.  
DO NOT REFRIGERATE.  
Allow paste to come to room temperature prior to opening.  
Spatulate well before using.

YY0211.2

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The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

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