

C8731

Conductor

Description

C8731 is a high solids silver conductor paste designed for hybrid applications utilizing aluminum nitride. It exhibits good solderability and excellent adhesion.

Key Features

- Excellent solderability Excellent adhesion to aluminum nitride



Typical Properties

|               |                                                                                      |
|---------------|--------------------------------------------------------------------------------------|
| Viscosity     | 150 – 220 Pa·s, Brookfield HBT DVIII, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C |
| Solids        | 81.5 - 84.0%                                                                         |
| Resistivity   | < 3.0 milliohms per square at 15 microns fired film Thickness                        |
| Solderability | SAC305 @250oC<br>RMA flux, 5 sec dip<br>> 95% coverage                               |

Recommended Processing Guide

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Printing Parameters       | 200 - 280 mesh stainless steel screen              |
| Drying Temperature        | 150°C peak temperatureD-well time of 10-15 minutes |
| Process Temperature (TDS) | 850°C peak temperature<br>Dwell time of 10 minutes |

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Recommended Processing Guide (continued)

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| Film Thickness      | Wet: 34 - 38 micronsDried: 22 - 26 micronsFired: 14 - 16 microns |
| Recommended Thinner | Heraeus RV-507                                                   |

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#### Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

#### 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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