

### C4774

#### Conductor

##### Description

C4774 is a silver/platinum (3:1) conductor paste designed for high leach resistant applications using aluminium nitride substrates. C4774 also has excellent adhesion and solderability.

##### Key Features

- Excellent leach resistance Excellent solderability  
Excellent adhesion on aluminum nitride



*This picture does not show the packaging of C4774 and is solely intended for illustration purposes. The products are available in different packaging configurations and may change over time. Please refer to the latest safety data sheets for safety-relevant pictograms.*

##### Typical Properties

|               |                                                                                |
|---------------|--------------------------------------------------------------------------------|
| Viscosity     | 150 – 220 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C |
| Conductivity  | 80-100 at 12 um fired film thickness                                           |
| Solids        | 82.5 ± 1.0%                                                                    |
| Alloy Ratio   | 3 : 1                                                                          |
| Resistivity   | 80 – 100 mΩ/□ at 12 μm fired film thickness                                    |
| Solderability | SAC 305 at 260 °C<br>RMA Flux, 5 sec dip<br>≥ 99% coverage                     |

##### Recommended Processing Guide

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Printing Parameters | 280 mesh stainless steel screen<br>0.5 mil emulsion |
| Drying Temperature  | 150 °C for 10 minutes                               |

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Recommended Processing Guide (continued)

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Process Temperature (TDS) | 850 °C peak temperature<br>Dwell time of 10 – 15 minutes |
| Film Thickness            | Dried 32 – 36 µm<br>Fired 10 – 14 µm                     |
| Recommended Thinner       | Heraeus RV-372                                           |

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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 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.

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