

## Technical Data Sheet

### THICK FILM MATERIALS

**Product Type:** LTCC Materials

**Product Name:** TC0307A



### Co-Firing Silver Conductor

#### Description

TC0307A is a pure Ag conductor with low resistivity and superior fine line print resolution. TC0307A provides excellent compatibility with HeraLock® HL2000 during the co-firing process.

TC0307A is optimized for screen printing as a routing conductor. The material may readily be used to print fine line patterns.

#### Key Benefits

- ROHS<sup>1</sup> compliant
- Print fine line patterns
- Excellent screen life

#### Typical Properties

##### Resistivity:

≤ 3.0 mΩ/□ at 20 μm dried film thickness  
(buried and co-fired with HeraLock® HL2000 tape)

##### Viscosity:

180 – 240 Kcps Brookfield HBT  
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

##### Solids:

80.0 ± 1.0 %

#### Recommended Processing Guidelines

##### Printing:

280 – 400 mesh stainless steel screen

##### Drying:

Maximum temperature of 80 °C for 10 – 20 minutes

##### Firing:

See HeraLock® HL2000 data sheet

##### Line Resolution:

≥ 100 μm printed

##### Film Thickness:

Dried: 20 – 25 μm  
Fired: 10 – 15 μm

##### Compatibility:

HeraLock® HL2000

##### Thinner:

RV-372

##### 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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Legend:

<sup>1)</sup> 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](http://www.heraeus-electronics.com)

**Americas**  
Phone +1 610 825 6050  
[electronics.americas@heraeus.com](mailto:electronics.americas@heraeus.com)

**China**  
Phone +86 21 3357 5457  
[electronics.china@heraeus.com](mailto:electronics.china@heraeus.com)

**Asia Pacific**  
Phone +65 6571 7677  
[electronics.apac@heraeus.com](mailto:electronics.apac@heraeus.com)

**Europe, Middle East and Africa**  
Phone +49 6181 35 3069, +49 6181 35 3627  
[electronics.emea@heraeus.com](mailto:electronics.emea@heraeus.com)