

Technical Data Sheet



Product Type: LTCC Materials

Product Name: TC2305



Co-Firing Silver Via Fill

Description

TC2305 is a pure Ag conductor which provides excellent compatibility low temperature co-fired ceramic (LTCC) during the cofiring process.

TC2305 can be optimized for various filling methods. This is done by adjusting the solids content.

The paste is compatible with other cofiring pastes and with various postfiring pastes.

Key Benefits

- Low resistivity
- Compatible with LTCC
- Excellent printability
- Pb and Cd free
- REACH¹ and RoHS² compliant

Typical Properties

Resistivity:

≤2.5 mΩ/□ at 12.5 – 17 μm dried film thickness

Viscosity:

200 – 500 Pas, Cone and plate at 10 sec⁻¹, 25 °C

Solids:

92.5 ± 1.0 %

Recommended Processing Guidelines

Printing

Various methods

Allow to level at room temperature for 10 minutes before drying.

Drying

Maximum temperature 80 °C for 10 minutes

Firing

870 – 880 °C peak temperature

Ramp from burnout to firing peak: 5 °C/minute

Dwell time at peak: up to 30 minutes

Total cycle time up to 12 hours

(Most easily achieved in a box oven).

Via Definition:

≥ 80 μm diameter

Thinner:

RV-507

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:

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)

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