

## Technical Data Sheet



**Product Type:** Conductors

**Product Name:** C8708



### Pb Free Silver Hole Plug

#### Description

C8708 is a Pb-free screen printable, pure silver paste designed as a hole plug in alumina substrates. The high solids loading allows for excellent filling properties. C8708 has low shrinkage, which allows for a complete fill of the through hole.

#### Key Benefits

- High solids loading
- Low shrinkage
- Stencil printing to fill through holes
- REACH<sup>1</sup> and ROHS<sup>2</sup> compliant

#### Typical Properties

##### Metal Type

Silver

##### Viscosity

200 – 300 Kcps, Brookfield HBT

SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

##### Solids

90.0 ± 1.0 %

##### Resistivity

≤ 8 mΩ/□ at 25 μm fired film thickness

#### Recommended Processing Guidelines

Hole sizes from 10 to 12 mil diameter  
 Squeegee durometer – 60 to 70  
 Squeegee speed - slow to medium  
 Print mode – contact and alternate direction  
 Passes – 3 to 5 alternate print passes

Note: A tissue should be placed between the substrate and the work holder for the purpose of evacuating air and solvent from the hole.

#### Application Method

Stencil Printing Process

3 – 5 mil stencil thickness

#### Drying

150 °C for 15 minutes

#### Firing

850 °C peak temperature

Dwell time of 8 – 12 minutes at peak

#### Thinner:

RV-372

#### Warranty:

TBD

#### 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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