**THICK FILM MATERIALS**

**Product Type:** Conductors

**Product Name:** C 7463LV

---

### Description

C 7463LV is a stencil printable copper paste designed to fill through-holes in alumina substrates.

### Key Benefits

- REACH\(^1\) and ROHS\(^2\) compliant
- High solids loading
- Low shrinkage
- Stencil-printable

### Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resistivity</strong></td>
<td>( \leq 3.0 \text{ m(\Omega)-cm} ) at 50 (\mu\text{m}) fired film thickness</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>250 – 375 Kcps Brookfield HBT SC4-14 spindle and 6R utility cup at 10 rpm, 25 °C</td>
</tr>
<tr>
<td><strong>Solids</strong></td>
<td>92.5 ± 2.0 %</td>
</tr>
</tbody>
</table>

### Recommended Processing Guidelines

- **Hole sizes from 10 – 20 mil diameter**
- **Substrate thickness:** 11 – 23 mils
- **Squeegee durometer:** 60 – 70
- **Squeegee speed:** slow to medium
- **Print mode:** contact
- **Passes:** 2 – 5 alternate or double print passes

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

### Application

Stencil printing process
3 – 5 mil stencil thickness

### Drying

Allow to level 2 – 3 minutes prior to dry
125 °C for 15 minutes

### Firing

Fire in Nitrogen with O\(_2\) between 2 – 5 ppm
925 °C peak temperature
Dwell time 5 – 10 minutes

### Thinner

RV-507

### 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.
Technical Data Sheet

Copper Hole Plug

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).

* See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request.