

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Conductors

Product Name: C 7463LV



Copper Hole Plug

Description

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

Key Benefits

- REACH¹ and ROHS² compliant
- High solids loading
- Low shrinkage
- Stencil-printable

Typical Properties

Resistivity

≤ 3.0 mΩ/□ at 50 μm fired film thickness

Viscosity

250 – 375 Kcps Brookfield HBT
SC4-14 spindle and 6R utility cup
at 10 rpm, 25 °C

Solids

92.5 ± 2.0 %

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 O₂ 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.

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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).

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

Heraeus Electronics
Heraeus Deutschland GmbH & Co. KG
Heraeusstraße 12 – 14
63450 Hanau, Germany
www.heraeus-electronics.com

Americas
Phone +1 610 825 6050
electronics.americas@heraeus.com

China
Phone +86 21 3357 5457
electronics.china@heraeus.com

Asia Pacific
Phone +65 6571 7677
electronics.apac@heraeus.com

Europe, Middle East and Africa
Phone +49 6181 35 3069, +49 6181 35 3627
electronics.emea@heraeus.com