

Technical Data Sheet



THICK FILM MATERIALS

Product Type: Dielectrics

Product Name: IP9002



Low Firing Overglaze for Aluminum Nitride

Description

IP9002 is a Pb, Cd, and Ni free low firing green overglaze that is resistant to various plating solutions. It has a low thermal expansion coefficient allowing for applications which utilize aluminum nitride substrates. It is compatible with various Heraeus conductors designed for aluminum nitride.

Key Benefits

- Excellent plating solution resistance
- Pinhole free
- Low thermal expansion coefficient (CTE)
- Chemically durable

Typical Properties

Coverage

 $170 \text{ cm}^2\text{/g}$ at $25 \mu m$ wet film thickness

Viscosity

60-80 Kcps, Brookfield HBT, SC4-14 spindle with 6R utility cup at 10 rpm, 25 °C

Solids

76.0 ± 2.0 %

Recommended Processing Guidelines

Printing

 $280 - \bar{3}25$ mesh stainless steel screen 0.5 mil emulsion 1.1 mil wire

Drying

Allow to level for 10 minutes before drying 150 $^{\circ}\text{C}$ for 10 minutes

Firing

500 - 600 °C peak temperature Dwell time of 5 - 7 minutes

Thickness

Dried: $20 - 22 \mu m$ Fired: $8 - 12 \mu m$

Thinner

RV-507

Warranty

TBD

Storage

Store in a dry location at 20 - 25 °C with container lid safely fastened.

DO NOT REFRIGERATE.

Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during



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Legend:

- ¹⁾ REACH compliant according to the <u>latest</u> ** 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 <u>latest</u> ** 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

Asia Pacific

Phone +65 6571 7649 electronics.apac@heraeus.com

China

Phone +86 53 5815 9601 electronics.china@heraeus.com

Europe, Middle East and Africa Phone +49 6181 35 4370 electronics.emea@heraeus.com