Heraeus

Dielectrics

IP 065

High Temperature Overglaze

Description
IP 065 is a green, screen printable, high temperature over-glaze for printing of larger areas. It's use is to protect top layer conductor tracks from moisture and works as a solder stop.

Key Benefits
- High temperature glaze
- Insulating layers for circuit protection vs moisture and solder
- Free of cadmium and nickel
- REACH [2] and RoHS [3] compliant

Processing
1. Spatulate well prior to processing. When stored in a fridge the paste should have acquired room temperature before being opened to avoid condensation.
2. Print through a 200 – 325 mesh stainless steel screen. Total thickness: 50 – 100 µm
3. Let the print settle at room temperature for 5 – 10 minutes.
4. Dry at 150°C for 10 – 20 minutes.
5. Fire at 850°C (peak) for 10 minutes, and with a total firing cycle time of 30 minutes.

Thinner HVS 100

Typical Properties (Pastes)

Form:	Thixotropic paste
Viscosity:	20 – 40 Pas (25°C, D = 100 s^{-1})
Solids:	75.0 % ± 1.5 %
Shelf Life:	6 months from date of shipment with correct storage (in a dry, cool (2 to 23 °C) and dark place with container tightly shut)

Typical Properties (Fired) [1]

Color:	Green (semi-transparent)

Compatibility

Conductors:	C 1200 Series C 2000 Series C 1075 Series C 1076 SD
Dielectrics:	IP 9117 Series

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1 Typical property based on laboratory test methods. For optimum results all materials should be fired in a profiled furnace supplied with dried, hydrocarbon and other contaminant free air (PP-1)

2 REACH compliant according to the Annex XIV (Feb. 17, 2011) of Commission Regulation (EU) No 143/2011 to Regulation (EC) No 1907/2006 of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency; we define a material as REACH compliant, as long as substances used are not recorded in the Annex XIV.

3 RoHS compliant according to the Directives (European Union) No 2011/65/EC of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions No. 7. c. I. of the EU Directive e.g. related to Pb)

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