

## IP2109

### Dielectric / Glaze

#### Description

IP2109 is a lead free, screen printable, overglaze paste for different purposes, especially for protecting thick film resistors or conductors. Because of the high firing temperature it fires to a transparent green colour and very dense glaze layer which is highly passivated to withstand abrasion and aggressive media occurring in plating processes.

#### Key Features

- Extremely resistant vs plating solutions eg. Ni baths with pH values of 4 – 5 and H2SO4 baths with pH values < 1. It is also resistant to alkaline solutions with pH value of  $\leq 9$  Excellent compatibility with different HERAEUS resistors and conductors on alumina and dielectrics



*This picture does not show the packaging of IP2109 and is solely intended for illustration purposes. The products are available in different packaging configurations and may change over time. Please refer to the latest safety data sheets for safety-relevant pictograms.*

#### Typical Properties

Viscosity	20 – 40 Pas (23 °C, D = 33/s)
Solids	70.0 ± 1.0 %
Blendable	
Coverage	
Color	Green, transparent

#### Recommended Processing Guide

Printing Parameters	Print through 200 – 325 mesh stainless steel screen.
Printing Speed	
Leveling	
Drying Temperature	Dry at 150 °C for 10 minutes.
Process Temperature (TDS)	Fire at 850 °C (peak) for 10 – 12 minutes, and with a total firing cycle time of c. 30 – 60 minutes
Film Thickness	
Recommended Thinner	HVS-507
Paste Compatibility	Dielectrics IP 9117 Series IP 9227 Conductors Ag C 8729H C 1075S (LPA 409-021) AgPt C 4728H C 1076SD (LPA 609-022) Au C 5729 Resistor R 2100 Series

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#### Warranty

6 months

#### Storage

store in a dry, cool (5 – 25 °C) and dark place with container tightly shut

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Version (last updated) 26 Feb 2026