

SD1010A

Dielectric / Glaze

Description

SD 1010A is a lead free, screen printable 850 °C firing glaze for insulating Cr-steel.

Key Features

- It fires to an extremely dense, hermetic film, allowing excellent electrical performance at a total fired film thickness of ≥ 70 µm Excellent compatibility with HERAEUS heating tracks and with the conductor termination down the overglaze SD1019

Typical Properties

Viscosity	15 – 30 Pa·s (23 °C, D = 33/s)
Solids	
Blendable	
Coverage	
Color	Permanent blue
Resistivity	
Laser Trim	
Rel. Dielectric Constant	
Dissipation Factor	
Insulation Resistance	
Breakdown Voltage	> 1500 V (AC)
Via resolution	
Thermal Coefficient of Expansion (CTE)	
Solderability	

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Recommended Processing Guide

Printing Parameters	Print through 165 – 325 mesh stainless steel screen. A print-dry fire sequence is advised for each layer.
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. 60 minutes
Film Thickness	
Recommended Thinner	Heraeus HVS 507
Paste Compatibility	Heating Tracks SR 21-350-025 SR 21-350-100 Termination SC 1001 (AgPt) (of Heating Tracks) Overglaze SD 1019

Notes

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

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Warranty

Material guaranteed to meet specifications for 3 months from date of manufacturing with proper storage.

Storage

Store in a dry, cool (5 - 25°C), dark place with container tightly shut. Allow paste to come to room temperature prior to opening. Spatulate well before using.

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