

SD2000

Dielectric / Glaze

Description

SD 2000 is a 850 °C firing glaze for insulating Cr steel.

Key Features

- Cofiring of insulation, heater, termination and cover glaze in one is possible. No bowing during wet stack process. Excellent green strength. Extremely dense, hermetic film is formed, allowing for an excellent electrical performance. A continuous operation at up to 550 °C is possible. May be applied to the following commercial steel types: German Strd No DIN-Type UK / USA 1.4016 X 6 Cr 17 430 No steel pre-treatment necessary. Simply remove the protective film, inspect surface for remaining adhesive, and commence printing. Excellent adhesion of heater and termination pastes

Typical Properties

Viscosity	25 – 45 Pa·s (23°C, D = 33 s-1)
Solids	
Blendable	
Coverage	c. 100 cm2 / g (50 µm wet film thickness)
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)	

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Typical Properties (continued)	
Solderability	
Recommended Processing Guide	
Printing Parameters	Print through a 165 – 325 mesh stainless steel screen. A double-wet print mode is advised for each layer.
Printing Speed	
Leveling	
Drying Temperature	Dry each print at 150 °C for 10 minutes
Process Temperature (TDS)	Co-fire all layers simultaneously at 850 – 860 °C (peak) for 12 – 20 minutes, and with a total firing cycle time of at least 90 minutes
Film Thickness	
Recommended Thinner	Heraeus RV-100
Paste Compatibility	
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 12 months from date of manufacturing with proper storage.

Storage

Store in a dry, cool (2 - 23°C), dark place with container tightly shut. Allow paste to come to room temperature prior to opening. Spatulate well before using.

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

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