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INSULATING COMPOSITION

4925-A

HOS Heaters on Steel[□] • COS Circuits on Steel[□] • TFOS Thick Film on Steel[□]

Cadmium, Lead, and Nickel-free

ESL 4925-A is a dielectric composition designed for use as a buffer layer between 4924 and ESL resistor materials. These materials are also useful in other TFOS Thick Film on Steel[□] applications.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	220±50 Pa·s
COLOR:	Dark blue
SHELF LIFE: (25°C)	6 months

PROCESSING

SCREEN MESH/EMULSION:	Small area	200/37 μ m
	Large area	165/0 μ m
LEVELING TIME:		5-10 minutes
DRYING AT 125°C: (Depending upon substrate volume)		> 15 minutes
FIRING TEMPERATURE:		850°C-930°C
	OPTIMUM:	850°C
	TIME AT PEAK:	10-12 minutes
RATE OF ASCENT/DESCENT:		50°C-60°C/minute
SUBSTRATE FOR CALIBRATION:		Type 430 stainless steel
THINNER:		ESL 401

4925-A 0302-New

ESL Affiliates

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See Caution and Disclaimer on other side.

TYPICAL PROPERTIES

FIRED THICKNESS:	> 80 μ m
BREAKDOWN VOLTAGE:	>1000 VAC
APPROXIMATE COVERAGE: (40 μ m thickness)	80 cm ² /g
INSULATION RESISTANCE: (25°C, 500VDC)	$\geq 10^{10}$ Ω
DIELECTRIC CONSTANT (K):	11-14
DISSIPATION FACTOR:	$\leq 0.5\%$

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CAUTION: Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapors emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate MSDS sheet.

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