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PROTECTIVE POLYMER COATING 243-S

RoHS Compliant*

ESL 243-S is a screen-printable, thermo-setting, epoxy coating that is resistant to solvent attack when fully cured. This coating may be used to protect thick film circuits on alumina or porcelain enamelled steel.

PASTE DATA

Rheology:	Thixotropic, screen-printable paste
Viscosity: (Brookfield RVT, 10 rpm No. 7 spindle, 25.5 ± 0.5 °C)	80 ± 20 Pa.s
Shelf Life (20 - 25 °C):	6 months
Colour:	Translucent blue

PROCESSING

Screen Mesh, Emulsion:	200 S/S, 25 µm
Levelling Time (20 °C):	5 - 10 min
Drying Time (at 125 °C):	10 - 15 min
Curing Schedule:	150°C / 5 - 15 min
Substrate for Calibration:	96% alumina
Thinner:	ESL 402

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TYPICAL PROPERTIES

Cured Thickness: (1 layer measured on 96% alumina)	10 - 15 µm
Approximate Coverage:	120 cm^2 / g
Service Temperature:	-100 to +150 °C
Solvent Resistance:	Good resistance to acetone when fully cured
Acid Resistance:	<1% weight loss in 5% H_2SO_4 at room temperature

***None of the six substances referred to in the RoHS Directive (2002/95/EC) are used in the formulation of this product.**

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 vapours 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.