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OVERGLAZE COMPOSITION

4702

HOS Heaters on Steelä • COS Circuits on Steelä • TFOS Thick Film on Steelä

Overglaze Designed to Protect HOS Heaters on Steelä

ESL 4702 overglaze composition is designed to protect heaters printed onto ESL 4924 insulated stainless steel substrates and is also useful on other TFOS (Thick Film on Steel)[™] applications. The 4702 is non-porous and its TCE closely matches that of ESL 4924. The 4702 will not adhere directly to stainless steel; so, it must be printed onto areas of the steel that have been coated with 4924. The shift in resistance value of ESL 29XXX resistors after overglazing with 4702 is < 5%.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	250±25 Pa·s
COLOR:	Green / Semi-glossy
SHELF LIFE: (at 25°C)	6 months

PROCESSING

SCREEN MESH/EMULSION:	325/10 µm
LEVELING TIME: (at 25°C)	5-10 minutes
DRYING AT 125°C:	> 15 minutes
FIRING TEMPERATURE RANGE:	850°C-930°C
OPTIMUM:	850°C
TIME AT PEAK:	10 minutes
RATE OF ASCENT/DESCENT:	50°C-60°C/minute
THINNER:	ESL 401

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See Caution and Disclaimer on other side.

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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.

DISCLAIMER: The product information and recommendations contained herein are based on data obtained by tests we believe to be accurate, but the accuracy and completeness thereof is not guaranteed. No warranty is expressed or implied regarding the accuracy of these data, the results obtained from the use hereof, or that any such use will not infringe any patent. Electro-Science assumes no liability for any injury, loss, or damage, direct or consequential arising out of its use by others. This information is furnished upon the condition that the person receiving it shall make their own tests to determine the suitability thereof for their particular use, before using it. User assumes all risk and liability whatsoever in connection with their intended use. Electro-Science's only obligation shall be to replace such quantity of the product proved defective.
