



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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DIELECTRIC COMPOSITION

4903-C

RoHS Compliant* High-Temperature Firing Overglaze

ESL 4903-C is a screen printable, vitreous, mineral filled glass dielectric coating. This composition produces a wear and abrasion resistant coating particularly suited for protecting Pt-based conductors used in high temperature applications, hermetic package construction, and sealing around conductor lead-outs from packages.

PASTE DATA

RHEOLOGY:	Thixotropic, screen-printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	230±100 Pa·s
COLOR:	Gray
SHELF LIFE: (25°C)	6 months

PROCESSING

SCREEN MESH/EMULSION:	200-325/5 µm
LEVELING TIME:	5-10 minutes
DRYING AT 125°C:	10-15 minutes
FIRING TEMPERATURE RANGE:	1250-1350°C
OPTIMUM PEAK TEMPERATURE:	1350°C
TIME AT PEAK:	30 minutes
RATE OF ASCENT/DESCENT:	60°C-100°C/minute
SUBSTRATE FOR CALIBRATION:	96% alumina
THINNER:	ESL 401

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See Caution and Disclaimer on other side.

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*Complies with RoHS, ELV, WEEE and CHIP 3 EC directives

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 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's 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 perform 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 shall be held responsible to replace such quantity of the product proved defective.
