



ESL Electro-Science

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CERMET SILVER CONDUCTOR

903-C

Lead-Free Conductor for Use with Ceramic Tape

ESL 903-C is a silver conductor designed for use as solderable top-layer metallization for use with low dielectric constant co-fired ceramic tape. ESL 903-C is used as a post-fired conductor.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	250±50 Pa·s
BONDING MECHANISM:	Fritless
SHELF LIFE: (at 25°C)	6 months

PROCESSING

SCREEN MESH/EMULSION:	325/25 µm
LEVELING TIME: (25°C)	5-10 minutes
DRYING AT 125°C:	10-15 minutes
FIRING:	850°C
SUBSTRATE OF CALIBRATION:	ESL 41110
THINNER:	ESL 401

TYPICAL PROPERTIES

FIRED THICKNESS:	< 15 µm
RESISTIVITY: (when normalized @ 25 µm & post-fired with ESL 41010 tape)	≤ 2 mΩ/sq.
SOLDERED ADHESION:	< 15N

903-C 0403 New

ESL Affiliates

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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.
