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CERMET GOLD CONDUCTOR

8835 VIA FILL

ESL 8835-VIA FILL is a high solids gold conductor that has been designed for filling vias in complex multilayer circuits. The 8835-VIA FILL is compatible with the ESL 4905-C and 4905-CH multilayer dielectric pastes and will not shrink or crack when subjected to multiple firings. This composition can also be used for through-hole printing in laser drilled holes and does not exhibit shrinkage cracking or adhesion problems after firing.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	275±25 Pa·s
BONDING MECHANISM:	Mixed
SHELF LIFE: (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:	
 OPTIMUM:	850°C
 TIME AT PEAK:	10-15 minutes
RATE OF ASCENT/DESCENT:	60°C-100°C/minute
SUBSTRATE OF CALIBRATION:	96% alumina
THINNER:	ESL 401

8835-VIA FILL 9711-A

ESL Affiliates

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See Caution and Disclaimer on other side.

TYPICAL PROPERTIES

THICKNESS: (for test purposes)

15-25 μm

RESISTIVITY:

$\leq 10 \text{ m}\Omega/\text{square}$

COMPATIBILITY:

ESL 4905-C and 4905-CH

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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.
