



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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GOLD CONDUCTOR

8831-UF

Unfluxed Gold Conductor, Cadmium-free and Lead-free

ESL 8831-UF is an unfluxed gold conductor developed for use as a conductive coating on other fired conductor films. It can be used to enhance wire bondability, to increase conductivity, and to provide an area for device attachment. In addition, it has been found useful as a ductile buffer layer for pin and lead frame attachment in packaging applications with low temperature co-fire tape. ESL 8831-UF has virtually no adhesion to bare alumina and therefore must be used on top of other conductors which supply the required adhesion properties.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	400±30 Pa·s
BONDING MECHANISM:	none
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 RANGE:	850°C-980°C
OPTIMUM:	980°C
TIME AT PEAK:	10-15 minutes
RATE OF ASCENT/DESCENT:	60°C-100°C/minute
THINNER:	ESL 401

8831-UF 0606-D

ESL Affiliates

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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 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.
