



## ESL ELECTROSCIENCE

CERAMIC TAPES &  
THICK-FILM MATERIALS

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# CEREMT GOLD CONDUCTOR

# 8831-UF

## RoHS Compliant\* • Unfluxed Gold Conductor

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

<b>Rheology:</b>	Thixotropic, screen-printable paste
<b>Viscosity:</b> (Brookfield RVT, 10 rpm, ABZ spindle, 25.5 ± 0.5 °C)	400 ± 30 Pa.s
<b>Bonding Mechanism:</b>	None
<b>Shelf Life (20 - 25 °C):</b>	6 months

### PROCESSING

<b>Screen Mesh, Emulsion:</b>	325 S/S, 25 µm
<b>Levelling Time (at 20°C):</b>	5 - 10 min
<b>Drying Time (at 125°C):</b>	10 - 15 min
<b>Firing Temperature Range:</b>	850 - 980°C
	Optimum: 980°C
	Time at peak: 10 - 15 min
<b>Rate of Ascent/Descent:</b>	60 - 100°C / min
<b>Thinner:</b>	ESL 401

ESL Europe (KOP) 8831-UF 0606-D

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See Caution and Disclaimer on page 2.

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\*None of the six substances referred to in the RoHS Directive (2002/95/EC) are used in the formulation of this product.

**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 vapours 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. ElectroScience 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 his own tests to determine the suitability thereof for his particular use, before using it. User assumes all risk and liability whatsoever in connection with his intended use. ElectroScience's only obligation shall be to replace such quantity of the product proved defective.

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