

416 EAST CHURCH ROAD KING OF PRUSSIA, PA 19406-2625, U.S.A

T: 610-272-8000

F: 610-272-6759

www.electroscience.com

CEREMT GOLD CONDUCTOR

8813-G

RoHS Compliant* • For use with Aluminium Nitride Substrates

ESL 8813-G is a newly developed gold conductor especially formulated for AIN. It can be used for 25 and 50 micrometer gold wire bonding. ESL 8813-G is designed to not dry on the screen and can be printed with 125 micrometer lines and spaces.

PASTE DATA

Rheology: Thixotropic, screen-printable paste

Viscosity:

(Brookfield RVT, 10 rpm,

ABZ spindle, 25.5 ± 0.5 °C) 285 ± 25 Pa.s

Bonding Mechanism:

Mixed

50 min

Shelf Life (20 - 25 °C):

6 months

PROCESSING

Total Cycle Time:

Screen Mesh, Emulsion: 325 S/S, 25 µm

Levelling Time (at 20°C): 5 - 10 min

Drying Time (at 125°C): 10 - 15 min

Firing Temperature: 850°C

Time at peak: 12 min

Substrate for Calibration: aluminium nitride

Thinner: ESL 401

TYPICAL PROPERTIES

Fired Thickness: 10 - 14 µm

Resistivity: $< 6.0 \text{ m}\Omega/\Box$

Printing Resolution:

(line/space) 0.125 mm / 0.125 mm

Thermosonic Au Wire Bond:

25 μ m wire \geq 9 g 50 μ m wire \geq 25 g

ESL Europe (KOP) 8813-G 0703-New

*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.