



## ESL ELECTROSCIENCE

CERAMIC TAPES &  
THICK-FILM MATERIALS

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# CERMET GOLD CONDUCTOR

# 8835 VF-G

**RoHS Compliant\***

ESL 8835 VF-G has been designed as a high solids content gold conductor and is used for filling via posts in complex multilayer circuits. This conductor is compatible with the 4913 series dielectrics and will not shrink or crack when subjected to multiple firing.

8835-VFG may also be used for through-hole printing to provide connection through laser drilled holes in 96% alumina.

## PASTE DATA

**Rheology:** Thixotropic, screen-printable paste

**Viscosity:**  
(Brookfield RVT, 10rpm,  
ABZ spindle, 25.5 ± 0.5 °C) 250 ± 25 Pa.s

**Bonding Mechanism:** Mixed-bonded

**Shelf Life (20 - 25 °C):** 6 months

## PROCESSING

**Screen Mesh, Emulsion:** 325 or 200 S/S, 15 µm

**Levelling Time (at 20°C):** 5 - 10 min

**Drying Time (at 125°C):** 10 -15 min

**Firing Temperature Range:** 850 - 1000°C in air

Optimum: 850 °C  
Time at peak: 10 min

**Total Firing Cycle:** 1 hour

**Substrate for Calibration:** 96% alumina

**Thinner:** ESL 401

ESL Europe 8835 VF-G 0812-B

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See Caution and Disclaimer on other side.

## TYPICAL PROPERTIES

**Fired Thickness:**

(measured on a 2 mm x 2 mm pad on 96% alumina)

20 ± 5 µm

**Approximate Coverage:**

95 cm<sup>2</sup>/g

**Resistivity:**

< 30 mΩ/□

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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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