CERMET GOLD CONDUCTOR 8835 VF-G

Lead and Cadmium-Free*

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 4905-C series dielectrics and will not shrink or crack when subjected to multiple firing. It is available in two different viscosities and is therefore able to fulfil a wide range of customer requirements.

The lower viscosity version of 8835 VF-G 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, 10rpm, ABZ spindle, 25.5 ± 0.5 °C)
150 ± 30 Pa.s
275 ± 25 Pa.s

Bonding Mechanism: Mixed-bonded

Shelf Life (20 - 25 °C): 6 months

PROCESSING

Screen Mesh, Emulsion: 325 S/S, 15 µm
Levelling Time (at 20°C): 5 - 10 min
Drying Time (at 125°C): 10 - 15 min
Firing Temperature Range:
Optimum: 850 - 1000°C in air
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 0406-A

ESL Affiliates
ESL Europe (Agmet Ltd) • 8 Commercial Road • Reading • Berkshire • England • RG2 0GZ • Tel: +44 (0) 118 918 2400 • Fax: +44 (0) 118 986 7331 • Sales@ESLEurope.co.uk
ESL Nippon • Sukegawa Bldg. • 6th floor • 3-4 Yanagibashi 1-chome • Taito-ku • Tokyo 111, Japan • Tel: +81-3-3864-8521 • Fax: +81-3-3864-9270 • Sales@ESL-Nippon.co.jp
ESL China • Room #1707, Tower A, City Center of Shanghai • 100 Zunyi Road • Shanghai, China 200051 • Tel: +86-21-6237-0336 and 0337 • Fax: +86-21-6237-0338 • ESLChina@eslashanghai.net

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 cm²/g

**Resistivity:**  
< 30 mΩ/□