



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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CERMET GOLD CONDUCTOR

8835 Via Fill

ESL 8835 Via Fill 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 Via Fill 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: 850 - 1000°C in air
Optimum: 850 °C
Time at peak: 10 min

Rate of Ascent/Descent: 50 - 60 °C / min

Substrate for Calibration: 96% alumina

Thinner: ESL 401

ESL Europe 8835 Via Fill 9809-G

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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 cm²/g

Resistivity:

< 30 mΩ/□

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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.

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