



## ESL ELECTROSCIENCE

CERAMIC TAPES &  
THICK-FILM MATERIALS

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### GOLD CONDUCTOR

### 802

#### Conductor for Low Temperature Co-fired Ceramic Tapes

ESL 802 is a gold conductor paste specially developed for use with ESL low temperature co-fired ceramic tapes (LTCC). This material is designed as a via-fill metallization.

#### PASTE DATA

<b>RHEOLOGY:</b>	Thixotropic, screen-printable paste
<b>VISCOSITY:</b> (Brookfield RVT, ABZ spindle, 10 rpm, 25.5 ± 0.5 °C)	275 ± 25 Pa.s
<b>SOLIDS CONTENT:</b>	87.5 ± 1.5 %
<b>SHELF LIFE:</b> (at 25 °C)	6 months

#### PROCESSING

<b>SCREEN MESH/EMULSION:</b>	325 / 25 ± 12 µm
<b>LEVELING TIME:</b> (at 25°C)	5 - 10 min
<b>DRYING TIME:</b> (at 80°C)	10 -15 min
<b>FIRING TEMPERATURE:</b>	Co-fired with LTCC
<b>RATE OF ASCENT/DESCENT:</b>	60°C - 100°C/minute
<b>SUBSTRATE FOR CALIBRATION:</b>	ESL 41010
<b>THINNER:</b>	ESL 401

ESL Europe (KOP) 802 0904-New

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See Caution and Disclaimer on other side.

## TYPICAL PROPERTIES

**FIRED THICKNESS:**

(measured on a 2 mm x 2 mm pad)

15 - 25  $\mu\text{m}$

**RESISTIVITY:**

(measured on a 100 mm x 0.25 mm conductor track)

$\leq 30 \text{ m}\Omega/\text{square}$

**NOTES:** All data was collected using ESL 41010 or similar tape, co-fired at 850°C.

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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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