



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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CO-FIRING PLATINUM CONDUCTOR

5574
5574-A

**RoHS compliant* co-fireable conductor designed
for use as lead or contact pads in planar sensors**

ESL 5574 is a platinum conductor designed to be co-fired with alumina at high temperatures. A lower resistivity version is also available (5574-A).

PASTE DATA

RHEOLOGY: Thixotropic, screen-printable pastes
VISCOSITY:
(Brookfield HBT, cone/plate, 38.4 sec⁻¹ at 25.0°C ± 0.5°C) 70 ± 15 Pa•s
SHELF LIFE: 6 months

TYPICAL PROPERTIES

SCREEN MESH/EMUSLION: 325 mesh / 25 ± 5 µm
RESISTIVITY: (12.5 µm fired thickness)
5574: ≤ 20 mΩ/square
5574-A: ≤ 18 mΩ/square
FIRING RANGE: 1500°C ± 10°C
see profile on back
TIME AT PEAK TEMPERATURE: 120 min.
SODIUM CONCENTRATION: ≤ 50 ppm
SUBSTRATE OF CALIBRATION: alumina tape

5574 1407-B

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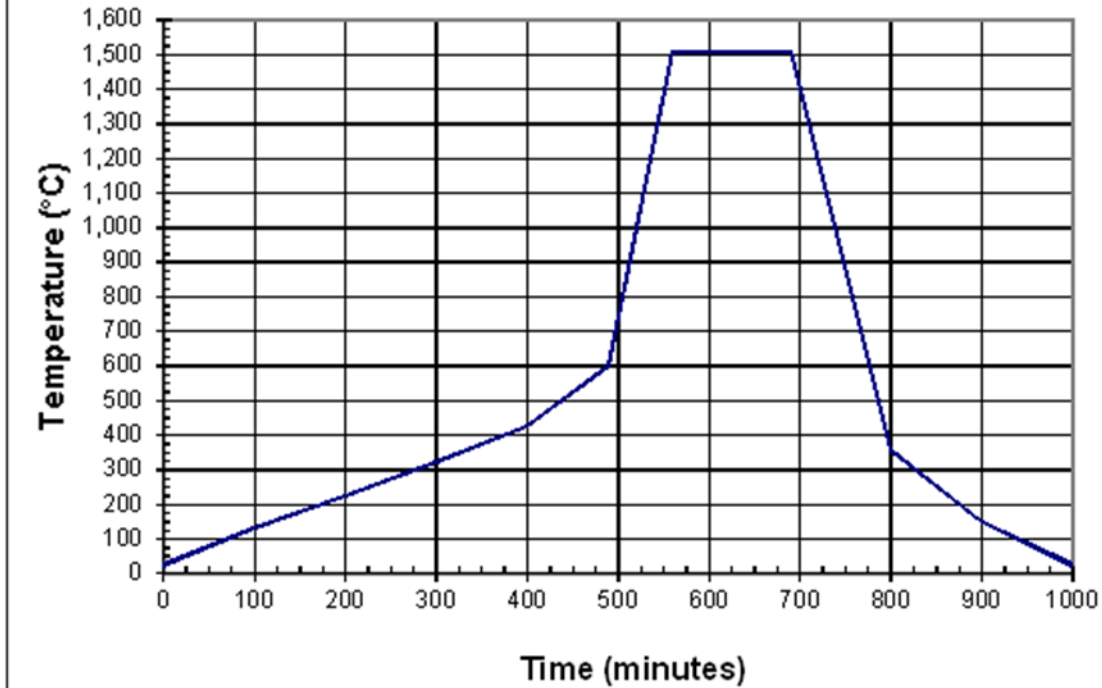
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See Caution and Disclaimer on other side.

Typical Firing Profile for 5574



5574 1407-B

*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.

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