

Technical Data Sheet

5574 Platinum Conductor

Material # 1148043



Product Description

5574 Platinum Conductor is a conductor designed to be co-fired with alumina tape at high temperatures. Applications include leads or contact pads in planar sensors.

5574 is formulated to be Lead free and Cadmium free. The term “free” means that Lead and Cadmium have not been intentionally added to the product. However, trace amounts may be present.

An ESL-Electro Science Laboratory Legacy Product

Typical Formulation Properties

Viscosity: 72 ± 7.2 Pa*s at $25.0 \pm 0.2^\circ\text{C}$, when measured using a Brookfield HBT cone/plate viscometer and CP51 cone at 38.4/sec shear rate.

Storage and Shelf Life: This product should be stored in tightly sealed containers at 20°C to 25°C , in a dry place away from direct sunlight. The shelf life of a factory sealed container is a minimum 6 months from date of shipment when properly stored.

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Typical Processing Recommendations

Printing: 325 mesh stainless steel screen with a $20\mu\text{m}$ to $30\mu\text{m}$ thick emulsion.

Leveling: 5 to 10 minutes at room temperature.

Drying: 10 to 15 minutes at 80°C with forced air flow and exhaust.

Firing: Optimum results are obtained by firing at a peak temperature of 1500°C for 120 minutes.

Thinner: 438(Material# 1148613)

Substrate of Calibration: 44000 Tape (Material# 1148457)

Typical Fired Properties

Resistivity: (Normalized at $25\mu\text{m}$ fired) $\leq 10\text{m}\Omega/\square$

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