

Technical Data Sheet

5574-A Platinum Conductor

Material # 1148044



Product Description

5574-A Platinum Conductor is designed to be co-fired with alumina tape at high temperatures. Applications include leads or contact pads in planar sensors. The 5574-A is a slightly lower resistivity version of the 5574 (Material# 1148043).

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

*Phthalates listed in Annex XIV of REACH

An ESL-Electro Science Laboratory Legacy Product

Typical Formulation Properties

Viscosity: $145 \pm 35 \text{ Pa}\cdot\text{s}$ at $25.0 \pm 0.2^\circ\text{C}$, when measured using a Brookfield HBT viscometer with an SC4-14 Spindle at 10rpm.

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 to 30 μm 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: 401(Material# 1148600)

Substrate of Calibration: 44009 Tape (Material# 1148479)

Typical Fired Properties

Resistivity: (Normalized at $12.5\mu\text{m}$ fired) $14.5 \pm 2.5 \text{ m}\Omega/\square$

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