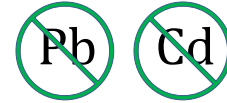


Technical Data Sheet

5570 Platinum Conductor

Material # 1148037



Product Description

5570 Platinum Conductor is designed to be co-fired with partially stabilized zirconia tape at high temperatures. Applications include an electrode in planar sensors.

5570 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: 70 ± 20 Pa*s at $20.0 \pm 0.2^\circ\text{C}$, when measured using a Brookfield HBT cone/plate viscometer and CP 51 Cone @ 38.4/sec shear rate.

Sodium Concentration: ≤ 50 ppm

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. Note: Depending on the tape composition, 5570 (Material # 1148037) can also be fired in the 1350°C to 1500°C range.

Thinner: 438 (Material# 1148613)

Typical Fired Properties

Resistivity: (normalized to $12.5\mu\text{m}$ fired thickness) $\leq 50\text{m}\Omega/\square$

Technical Data Sheet

