

# Technical Data Sheet



## 5575-C Platinum Conductor Co-Firing Via-Fill Conductor Material # 1148513

### Product Description

5575-C Platinum Co-Firing Via-Fill Conductor is a platinum conductor designed to be co-fired with alumina tape or partially stabilized zirconia tape at high temperatures. Applications include via-fill in planar sensors.

5575-C 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:** 2500±500 Pa\*s at 25.5±0.5°C, when measured using a Brookfield HBT viscometer using spindle SC4-14 at 2.5 rpm.

**Thinner:** 438(Material # 1148613)

**Storage and Shelf Life:** This product should be stored in tightly sealed containers at 10°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:** Product not designed to be screen printed; for via filling use appropriate stencil.

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

**Firing:** Optimum results are obtained by firing at a peak temperature of 1500±10°C for 120 minutes.

### Typical Fired Properties

**Note:** Depending on tape composition, 5575-C can also be fired in the 1350°C to 1500°C range.

When fired in a conductor trace configuration, 5575-C (Material # 1148513) has a sheet resistivity of ~50mΩ/□ normalized to a fired thickness of 25µm.

