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 ± 35 Pa*s at 25.0±0.2°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.

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 12.5µm fired) 14.5±2.5mΩ/□

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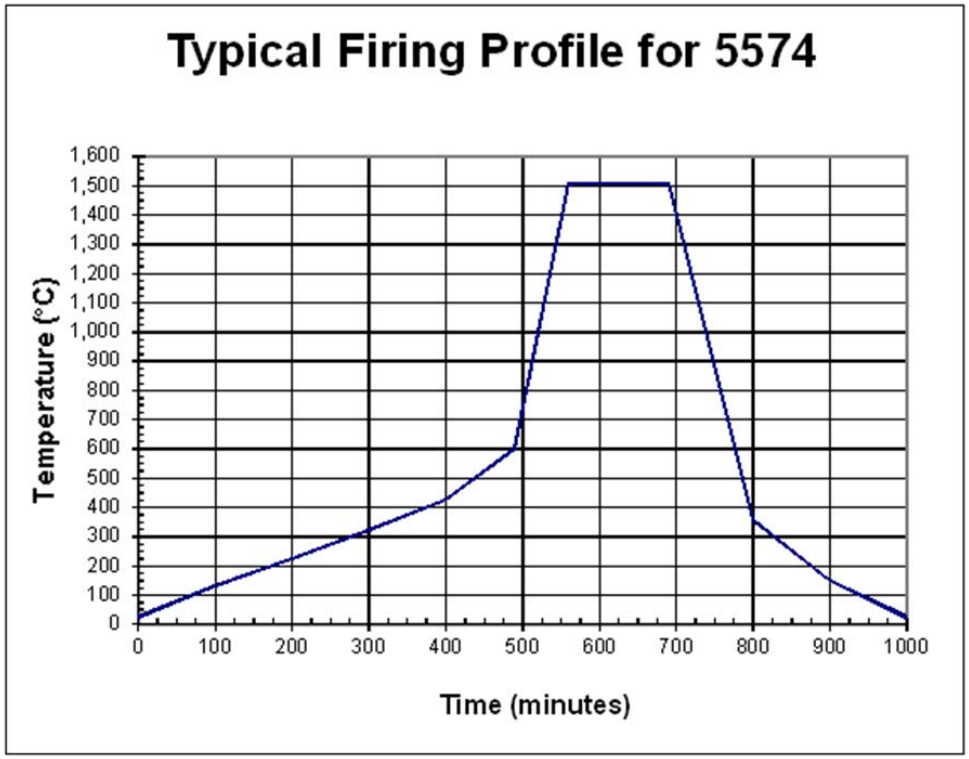
Typical Firing Profile for 5574
Temperature (°C)
1,600
1,500
1,400
1,300
1,200
1,100
1,000
900
800
700
600
500
400
300
200
100
0
0
100
200
300
400
500
600
700
800
900
1000
Time (minutes)