

Technical Data Sheet

5724 Platinum-Rhodium Conductor



Product Description

5724 is a Pt/Rh paste for HTCC applications. It is a porous layer after co-firing with Yttria-Stabilized Zirconia tapes. It is designed to be the sensing electrode in the NOx sensor.

5724 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

Intended Applications:

Sensor applications as well as other applications requiring the properties of a Platinum/Rhodium conductor.

The 5724 is an experimental material, typical properties reported are based on a limited data set and are subject to change.

Typical Properties and Processing Recommendations

Rheology: Pseudoplastic, screen/stencil printable paste

Viscosity: 125±75 Pa*s at 25.5°C±0.5°C when measured using a Brookfield HBT viscometer and an SC4-14 spindle at 10 RPM.

Color: Black

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.

Printing: Screen mesh and emulsion to be determined by needed print thickness. Recommended screen mesh 325 to 400.

Leveling Time: 5 to 10 minutes

Drying at 70°C to 80°C: 5 to 15 minutes

Firing: Optimum results are obtained by firing at a peak temperature of 1350°C to 1450°C for 1 to 2 hours. Actual firing profile depends on the design of the green tape laminate.

Thinner: 480 (Material # 1148622)

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