

Technical Data Sheet

4569 Porous Zirconia Dielectric Zirconia Paste for HTCC Applications Material # 1148193



Product Description

4569 is a porous Zirconia paste composition for use in planar sensors together with 42020-D (Material # 1432322) HTCC tape.

4569 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: 430±140 Pa*s at 25.5±0.5°C, when measured using a Brookfield RVT viscometer with an ABZ spindle @ 10 rpm.

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

Thinning: This paste is formulated at the appropriate viscosity for the intended application; Ferro 413 (Material # 1148606) may be used to replace solvent loss.

Printing: 200 mesh stainless steel screen with basecoat emulsion.

Leveling: 5 to 10 minutes at room temperature.

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

Firing: Optimum results are obtained by firing at a peak temperature between 1350°C – 1500°C for 1.5 hours.

Compatible Materials: 42020-D (Material # 1432322)

Limitation of Warranty and Liability

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