

Technical Data Sheet

Low Temperature Co-fired Ceramic Systems DL10-088 LTCC Dielectric Paste

Application

DL10-088 is a screen printable, co-fireable dielectric specifically designed for compatibility with Ferro's A6M-E LTCC system.

Typical applications include conductor insulation, gluing fired A6 together and healing delaminated layers. DL10-088 is formulated and processed to be RoHS compliant.

Typical Formulation Properties

Viscosity: 55 Pa.s

Solids: > 59%

Fired Thickness: ~13um μm

Storage and Shelf-life: This product should be stored in a tightly sealed container at 10-25°C, in a dry place away from direct sunlight. Shelf life of a factory sealed container is minimum 6 months from date of shipment when properly stored.

Typical Process Parameters

Thinning: This paste is formulated at the appropriate viscosity for the intended application. Contact Technical Service for a recommended thinner to replace solvent loss.

Printing: A 325-400 mesh stainless steel screen with a base emulsion of 15um will yield a typical dried film thickness of $19 \pm 2 \mu\text{m}$.

Drying: 70°C for 10 minutes in an oven with forced air flow and exhaust.

Firing: 850°C for 10 minutes at Peak Temperature with an overall profile of 45 minutes.



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