FUGITIVE PASTE

Cadmium-free, Lead-free* for SOFC, other Fuel Cells, and HTCC Sensors

ESL 4441 is a FUGITIVE paste composition that burns out cleanly at 850°C. This paste can be used to form channels in multilayer tape structures or, when mixed with other inks, to increase porosity. It is a screen-printable thick-film paste. The rheology of the material can be modified on a custom basis for use with alternative deposition techniques.

PASTE DATA

RHEOLOGY: Thixotropic, screen printable paste

VISCOSITY: (Brookfield HBT, cone/plate, 38.4 sec⁻¹ at 25.0°C ± 0.5°C) 70 ± 15 Pa•s

COLOR: Black

Residue: (850°C, 30 min. in air) <0.1%

PROCESSING

LEVELING TIME: (25°C) 5-10 minutes

DRYING AT 125°C: 10-15 minutes

SHELF LIFE: (at 25°C) 6 months

COMPATIBILITY: ESL HTCC tapes such as 42000 & 44000 Series
Complies with RoHS, ELV, WEEE and CHIP 3 EC directives.

CAUTION: Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapors emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate MSDS sheet.

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