DIELECTRIC COMPOSITION 4903-C

RoHS Compliant* High-Temperature Firing Overglaze

ESL 4903-C is a screen printable, vitreous, mineral filled glass dielectric coating. This composition produces a wear and abrasion resistant coating particularly suited for protecting Pt-based conductors used in high temperature applications, hermetic package construction, and sealing around conductor lead-outs from packages.

PASTE DATA

**RHEOLOGY:** Thixotropic, screen-printable paste

**VISCOITY:**
(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C) 230±100 Pa·s

**COLOR:** Gray

**SHELF LIFE:** (25°C) 6 months

PROCESSING

**SCREEN MESH/EMULSION:** 200-325/5 μm

**LEVELING TIME:** 5-10 minutes

**DRYING AT 125°C:** 10-15 minutes

**FIRING TEMPERATURE RANGE:** 1250-1350°C

**OPTIMUM PEAK TEMPERATURE:** 1350°C

**TIME AT PEAK:** 30 minutes

**RATE OF ASCENT/DESCENT:** 60°C-100°C/minute

**SUBSTRATE FOR CALIBRATION:** 96% alumina

**THINNER:** ESL 401
4903-C 1304-new

*CComplies 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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