ALUMINA DIELECTRIC

High-Temperature RoHS Compliant* Dielectric for Oxygen Sensors

ESL 4530 is a high-temperature insulator composition for use in oxygen sensors and other HTCC applications. It is a screen-printable thick-film paste. It is compatible with other ESL pastes used in similar applications.

PASTE DATA

RHEOLOGY: Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C) 70±25 Pa·s

PROCESSING

SCREEN PARAMETERS: 200-325 mesh/ 5µm emulsion
LEVELING TIME: (25°C) 5-10 minutes
DRYING AT 80°C: 10-15 minutes
PEAK FIRING TEMPERATURE & TIME: 1450°C-1500°C/1.5 hours
SHELF LIFE: (at 25°C) 6 months
THINNER: ESL 480
"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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