CERMET SILVER CONDUCTOR 9907

RoHS Compliant* Conductor for use with Fuel Cells

ESL 9907 is a silver conductor designed to be used as a current collector for solid oxide fuel cells (SOFC). It can be screen-printed and is also available in syringes for dispensing.

PASTE DATA

RHEOLOGY: Thixotropic, screen-printable paste

VISCOOSITY:
(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C) 75 ± 25 Pa•s

BONDING MECHANISM: Fritless

COLOR: Grey

SHELF LIFE: (at 25°C) 6 months

PROCESSING

SCREEN MESH/EMULSION: 325 / 15-25 μm

LEVELING TIME: (25°C) 5-10 minutes

DRYING AT 125°C: 10-15 minutes

FIRING TEMPERATURE: 850°C

TIME AT PEAK: 10-12 minutes

TOTAL FIRING CYCLE: 45-60 minutes

SUBSTRATE OF CALIBRATION: ESL 41010

THINNER: ESL 401
TYPICAL PROPERTIES

FIRED THICKNESS
9-17 µm

RESISTIVITY:
(when normalized @ 20 µm & co-fired with ESL 41010 tape)
≤ 2 mΩ/sq.

* 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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