GOLD CERMET CONDUCTOR

HIGH CONDUCTIVITY GOLD CONDUCTOR DESIGNED TO HERMETICALLY FILL THROUGH-HOLES

ESL 8838-VF is a mixed bonded, high conductivity gold conductor for use on alumina substrates. This material is designed to fill through-holes in ceramic substrates. The result is a plugged hole that is conductive and hermetic. The conductor exhibits excellent adhesion to the walls of the through-hole.

PASTE DATA

RHEOLOGY: Thixotropic, screen printable paste

VISCOITY:
(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C) 400±50 Pa·s

SOLIDS: 87-88%

BONDING MECHANISM: Mixed

SHELF LIFE: (at 25°C) 6 months

PROCESSING

SCREEN MESH/EMULSION: 325/25 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

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

SUBSTRATE OF CALIBRATION: 96% alumina

THINNER: ESL 401
TYPICAL PROPERTIES:

RESISTIVITY: (fired thickness of 25.4 µm)  

35-45 mΩ/square