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### **CERMET SILVER CONDUCTOR**

903-E

# **Lead-Free Conductor for Use with Ceramic Tape**

ESL 903-E is a silver conductor designed for use as top-layer metallization for use with co-fired and transfer ceramic tape.

#### **PASTE DATA**

RHEOLOGY: Thixotropic, screen printable paste

**VISCOSITY:** 

(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)

BONDING MECHANISM:

SHELF LIFE: (at 25°C)

200±50 Pa·s

6 months

#### **PROCESSING**

SCREEN MESH/EMULSION:

LEVELING TIME: (25°C)

5-10 minutes

DRYING: (at 80°C)

10-15 minutes

850°C

SUBSTRATE OF CALIBRATION:

ESL 41010

THINNER:

## **TYPICAL PROPERTIES**

FIRED THICKNESS: < 16-24 µm

**RESISTIVITY:** 

(when normalized @ 20  $\mu$ m & co-fired with ESL 41010 tape) 1.5-2.5 m $\Omega$ /sq.

ESL Europe (KOP) 903-E 0403-New



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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 vapours 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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