

PRODUCT DESCRIPTION

Mateprincs SCAG-003 is a silver/silver-copper based conductive ink for screen printing.

This ink has been developed for conductive membrane switches applications.

PRODUCT BENEFITS

- Excellent adhesion to plastic substrates
- Good compatibility with resistive and dielectric inks
- Stable over time
- Very high definition

PROCESSING

Screen Printing equipment

- Manual
- Semi-automatic

Screen type

- Monofilament polyester screen or stainless steel screen

Recommended Screen type

- Monofilament polyester screen, threads/cm 130.30
- Emulsion 10-40 μm

Recommended squeegee

Polyurethane, shore: 60-75

Curing conditions

Static Box oven: 130°C, 20-30min

Belt furnace: 130°C, 2-3 min

Clean-up

To clean screen and equipment use a general product for screen cleaning and finish with ethanol

INK PROPERTIES

Typical properties of uncured ink

Solids Content, %	70-81.5
Density, g/cm ³	3.16
Viscosity, Pa·s, (rheometer, 23°C), 200s ⁻¹	14.3-14.8

Typical properties of cured ink

Adhesion, UNE EN ISO 2409	0
Resistivity, m Ω ·cm	0.05
Abrasion resistance, UNE EN ISO 15184 (Pencil Hardness, Scratch)	4 B