

The silver paste is formulated for screen printing application on the float glass, for the **fine line printing** specially (<0.40 mm width). It is produced with a special coated silver powder, that gives an excellent **low resistivity** and a well sintered fired film. High life on screen is guaranteed due to the high substrate wetting properties. It demonstrates excellent chemical and mechanical resistance. It withstands the bleed through of the soldered “ T-piece” adhesion.

PROCESSING CONDITIONS

Printing: typical industrial parameters 200 – 250 mesh stainless steel screen, or 90 - 110 wires polyester screen.

Soldering: 47% Sn, 40% Pb, 10% Bi, 3% Ag solder at 230°C (best conditions).

Shelf life: 8 months @ 4°C-10°C, 6 months @ 10-24°C

Thinners: Thinning is not recommended, the paste is optimized to the correct viscosity for screen printing. Use the Chimet 0203IT to replace solvent losses (% higher than 0.1% could affect conductivity).

TYPICAL PROPERTIES

Metal content:

Ag **85.0 %**

Resistivity:

2.2 $\mu\Omega \cdot \text{cm}$

Viscosity:

50 – 60 Pa.s

STANDARD TEST CONDITIONS

Viscosity test:

Viscosimeter Brookfield DV II, Cylinder $\varnothing = 4 \text{ cm}$ h = 7 cm , Spindle 7 R at 10 r.p.m. and 23.5 ($\pm 0,5$)°C.

Resistance test:

Circuit: 1000 x 1 mm
Printing : 250 mesh
Drying : 120°C, 10 minutes
Firing: flash firing @ 740°C, 4 minutes
Fired thickness: Taylor-Hobson profilometer

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