

Silver Paste Ag 3700 80%

Application: The lead free silver paste Ag 3700 is formulated for screen printing on the float glass. It offers good electrical properties combined with excellent chemical and mechanical resistance.

BENEFITS

- Good printability and substrate wetting
- Excellent life on screen
- High adhesion of fired layer
- Good mechanical properties (pull and scrape)
- Good chemical properties
- Pass typical ageing tests
- Smooth surface with no mottling

STANDARD TEST CONDITIONS

Printing: typical industrial parameters: 200 – 250 mesh stainless steel screen, or 77 – 90 wires polyester screen and 0.4mm minimum line width is recommended.

Drying: 10 minutes, 120°C.

Firing: flash firing @ 740°C, 4 minutes (best conditions).

Table 1. TYPICAL PROPERTIES

Metal content

80.0%

Viscosity:

30 – 40 Pa *s

Fineness of grind:

< 15 µm

Sheet Resistance:

2.5 mΩ/□ @ 10 µm

Resistivity:

2.5 µΩ·cm

Viscosity test:

Viscosimeter Brookfield DV II, small sample adapter 6R, spindle 14R, @ 10 r.p.m. and 25 (±0.5) °C.

SOLDERING

47% Sn, 40% Pb, 10% Bi, 3% Ag at 300°C (best conditions).

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).

SHELF LIFE

Min. 6 months when properly stored in tightly closed containers at room temperature (< 25°C).

RECOMMENDATION

Before use please stir paste gently with a spatula for homogenisation. Keep paste at room temperature for 12h before opening container.

DISCLAIMER

The data published in this document come from experiments carried out in our laboratories and performed in conditions believed to be the most commonly accepted by the industry. It is the end-user's responsibility to check whether this product can be efficiently used in his specific process and under his specific industrial conditions which Chimet can neither control nor foresee. Chimet makes no warranties expressed or implied arising from the product use. Chimet specifically disclaims any liability for consequential or incidental damages of any kinds, including lost profits.

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