

Silver Paste Ag 4800 78%

Application: The lead free silver paste Ag 4800 is designed for fine tuning of conductivity by blending with organic vehicle 2002M. It satisfies high chemical and mechanical resistance and special brownish colour on the air side. Newly developed glass frit composition and high density sintered film guarantee high performances of original and medium diluted (5' gently mixing) paste versions. It is recommended not to exceed the 15% when diluting the paste.

BENEFITS

- Conductivity tuning by blending with medium 2002M
- High adhesion of fired layer
- Good mechanical properties (pull and scrape)
- Good chemical properties
- Pass typical ageing tests
- Brownish colour on air side

STANDARD TEST CONDITIONS

Printing: typical industrial parameters: 200 – 250 mesh stainless steel screen, or 77 – 90 wires polyester screen and 0.35mm 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

78.0%

Viscosity:

30 – 50 Pa *s

Fineness of grind:

< 14 µm

Sheet Resistance:

2.4 mΩ/□ @ 12 µm

Resistivity:

2.2 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 0201IT 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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