

Silver Paste For Rear Tabbing Ag 2715 SC

Application: Chimet[®] silver paste Ag 2715 SC is a lead free silver paste for rear tabbing. It combines very low silver content (precious metal is 40%) with good pull strength and excellent charge transfer from the backside to the ribbons. It allow low coverage for a minimum silver consumption of ~2mg/cm². Chimet[®] Ag 2715 SC shows firing through on dielectric layers (test carried out on Si_xN_y).

BENEFITS

- Very low Ag content: 40%
- Low lay-down: 5.4±1.0mg/cm²
- Excellent solderability (pull strength ≥2N/mm)
- Allow IR, induction and standard soldering processes
- Heavy metal free

STANDARD TEST CONDITIONS

Printing: typical industrial parameters: 250 – 300 mesh stainless steel screen, emulsion 4 – 15 µm thickness. Snap off 1.2 – 1.5 mm, speed 160 – 250 mm/s, force 60 – 80 N.

Drying & Firing: compatible with standard industrial processes. Chimet[®] Ag 2715 SC can be co-fired with back side (p-type) aluminium conductors such as Chimet[®] Al 7530 SC, Chimet[®] Al 7534 SC, Chimet[®] Al 7540 SC.

Table 1. TYPICAL PROPERTIES ^{#1}

Viscosity

75–100Pa*s@10rpm

Solid content

44.52%±0.50%

Conductivity

<5.5mΩ/□@10µm

Wet cov. (300-250/3µmEOM)

4.4÷5.4 mg/cm²

^{#1} typical values obtained in the laboratory and do not represent any specification

STORAGE AND SHELF LIFE

Containers may be stored in a clean, stable environment at room temperature (18°C÷25°C) tightly sealed. Storage in high temperature (>25°C) or in freezers (temperature <4°C) is not recommended.

RECOMMENDATION

Before use please stir paste gently (to avoid air entrapment) with a spatula for homogenisation (30'' to 1'). Best conditions are achieved when a jar rolling is adopted (6~10rpm for 24h).

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

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