

## Product Specification

Product:	<b>Low Temperature Copper Paste</b>
Part Number:	<b>25L-2211</b>

- ※ Copper paste cured at 80-150°C
- ※ Suitable for flexible substrates, ceramics, glass, metals, etc.
- ※ High copper content with low resistance
- ※ Excellent adhesion

### Application Scope :

The single-component conductor paste series is widely applicable in flexible printed circuits, notebook keyboard circuits, RF interference shielding, RFID, toy manufacturing, educational device circuit printing, and contact printing. It can be used on various substrates including alumina ceramics, microcrystalline glass ceramics, PET, and PC sheets, delivering excellent conductivity and film adhesion. With superior printability, flexibility, and strong adhesion, its electrical performance remains stable even after processing or bending during product use. The material is compatible with both screen printing and spray coating processes.

### Usage Conditions :

Substrate	Ceramic substrates, PET, PI polyester films, and other sheet materials
Usage Method	200-250 mesh screen printing
Leveling	Level at room temperature for 3-5 minutes (time adjusted according to actual leveling conditions)
Solidify	In an incubator 80°C for 60 minutes, 120°C for 20 minutes, 150°C for 10 minutes, 180°C for 5 minutes (For reference only. The actual baking temperature and time can be adjusted as needed.)
Thinner	ST-1001

## Characteristics :

### 1. Paste Characteristics :

Characteristic	Standard	Test Method And Conditions
1 Fineness	$\leq 8\mu\text{m}$	FOG test
2 Viscosity	80-220Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R, operating at 10 rpm, with viscosity adjustable to $25\pm 1^\circ\text{C}$ according to user requirements.

### 2. Characteristics After Curing :

Under the condition of 1 sintering, Check fired film produced under the conditions specified in 1 )

Characteristics	Standard	Test Method And Conditions
4 Resistivity	$\leq 200\text{m}\Omega/\square$	Square resistance test The cured film thickness is $10\mu\text{m}$ , and the test pattern size is $100\text{mm}\times 1\text{mm}$ .
	$\leq 100\text{m}\Omega/\square$	Four-pin probe method $25.4\mu\text{U}$
5 Hardness	3H	Pencil hardness
6 Adhesion	Not fall off	3M 600#Tape $90^\circ$ Pull

### Save Conditions And Validity Period :

The product shall be stored in a sealed container at an ambient temperature of  $5-15^\circ\text{C}$ , with a shelf life of six months from the date of shipment.

### Packaging Method :

Standard packaging, 1000g/can; samples are available in 200g small can packaging.

**Note:** This specification is for reference only. Please refer to actual test data.