

# Silver Coated Copper Paste for Screen Printing

## Model: MGT-SCP-SP70T

### Product Description

Silver coated copper paste has strong printing adaptability, single component, rapid curing at medium temperature, excellent adhesion, suitable for screen printing process. The product mainly used in circuit, circuit board, silicon chip, glass conductive circuit and other electronic fields. It's suitable for PC, PET, ABS, silicon wafer, glass and other substrates.

### Product Features

- Strong printing adaptability
- Good electrical conductivity
- Excellent oxidation resistance
- Excellent adhesion

### Product Properties

Item	Unit	Result
Appearance	/	Silver-copper thick liquid, no impurities, no crust, no stratification
Viscosity	Pa.s	62~75
Fineness	um	≤15
Solid content	%	75±1
Silver content	%	5
Adhesion	Kg/mm <sup>2</sup>	3M tape, Stable
Density	Kg/L	~2
Pencil hardness	H	≥2H
Resistance	Ω/cm <sup>2</sup> / 15μm	0.8
Drying condition	/	80~100°C, 20~30min
Sieve / screen	mesh	150~250

### Product usage and precautions

1. The viscosity of the system is very sensitive to the diluent (DBE). If dilution is needed, please do not add more than 5% and add a very small amount of test step by step; Use as much as possible after opening it.
2. Blender for 3-5 minutes, mix manually at low speed for about 10 minutes, and be careful not to bring in air bubbles.

3. It is recommended to use 150 to 250 mesh polyester screen.
4. Suggested baking condition is 80~100°C for 20~30min. The drying temperature should not exceed 130°C, do not bake for a long time to avoid oxidation.
5. The silver copper paste should be stored at 5~25°C and sealed in a cool place, shelf life is 3 months.
6. Diluter : less than 5% DBE or Diethylene glycol monobutyl ether ( DB).
7. Screen cleaning solvent : Ethyl acetate or its related solvents .

*Disclaimer : The information provided in this Technical Data Sheet (TDS) is compiled in good faith and obtained using procedures performed at Mogreat company and to the best of our knowledge. The information on this TDS has been updated on the date printed, and latest versions can be obtained upon request. The customer is responsible for conducting tests to determine whether our products are compatible with the customer's process and specific applications.*

**Mogreat**®  
Mogreat Technologies Co.,Ltd.  
[http:// www.mogreat.com](http://www.mogreat.com)  
All Rights Reserved. 2023

# Silver Coated Copper Paste for Screen Printing

## Model: MGT-SCP-SP95T

### Product Description

Silver coated copper paste has strong printing adaptability, single component, rapid curing at medium temperature, excellent adhesion, suitable for screen printing process. The product mainly used in circuit, circuit board, silicon chip, glass conductive circuit and other electronic fields. It's suitable for PC, PET, ABS, silicon wafer, glass and other substrates.

### Product Features

- Strong printing adaptability
- Good electrical conductivity
- Excellent oxidation resistance
- Excellent adhesion

### Product Properties

Item	Unit	Result
Appearance	/	Silver-copper thick liquid, no impurities, no crust, no stratification
Viscosity	Pa.s	62~75
Fineness	um	≤10
Solid content	%	75±1
Silver content	%	30
Adhesion	Kg/mm <sup>2</sup>	3M tape, Stable
Density	Kg/L	≈2.0
Pencil hardness	H	≥2H
Resistance	Ω/cm <sup>2</sup> / 15μm	<0.2
Drying condition	/	80~100℃, 20~30min
Sieve / screen	mesh	150~300

### Product usage and precautions

1. The viscosity of the system is very sensitive to the diluent (DBE). If dilution is needed, please do not add more than 5% and add a very small amount of test step by step; Use as much as possible after opening it.
2. Blender for 3-5 minutes, mix manually at low speed for about 10 minutes, and be careful not to bring in air bubbles.

3. It is recommended to use 150 to 300 mesh polyester screen.
4. Suggested baking condition is 80~100°C for 20~30min. The drying temperature should not exceed 150°C, do not bake for a long time to avoid oxidation.
5. The silver copper paste should be stored at 5~25°C and sealed in a cool place, shelf life is 3 months.
6. Diluter : less than 5% DBE or Diethylene glycol monobutyl ether ( DB).
7. Screen cleaning solvent : Ethyl acetate or its related solvents .

*Disclaimer : The information provided in this Technical Data Sheet (TDS) is compiled in good faith and obtained using procedures performed at Mogreat company and to the best of our knowledge. The information on this TDS has been updated on the date printed, and latest versions can be obtained upon request. The customer is responsible for conducting tests to determine whether our products are compatible with the customer's process and specific applications.*

**Mogreat**®

Mogreat Technologies Co.,Ltd.

[http:// www.mogreat.com](http://www.mogreat.com)

All Rights Reserved. 2023

## Silver Coated Copper Conductive Paint

**Product Model : MGT-SCP-310A**

### Product Description

Silver coated copper conductive paint ( Model: MGT-SCP-310A ) is a green alcohol-soluble conductive paint with imported waterborne resins. After sprayed inside housing of electronic products, conductive silver coated copper power forms dense conductive layer film after drying conductive paint film. The dense conductive layer film has functions of good shielding electromagnetic radiation, anti-electromagnetic interference and anti-static. It also has good conductive performance in application of composite materials. This conductive paint is favored by customers because of diluted with alcohol on the plastic housing for corrosion, good adhesion can be hundreds of cells tested, easy to wipe the paint fly, protect fragile shell parts and screw column are not affected by an organic solvent erosion and so on. CSG-SCP-310A is widely applied in inside housing of various electronic products like GPS, DVD, DVB, medial equipments, etc.

### Basic Parameters

Product Name	Silver Coated Copper Conductive Paint
Model	MGT-SCP-310A
Packing specs	5Kg/pot; 10Kg/pot; 20Kg/pot
Color	Copper red
Viscosity	Thixotropic mixture
Solid content	30%
Theoretical coverage rate	6-10 square /kg (conductive paint film thickness=20microns)

### Technical Parameters

Resistivity	less than 0.005~0.015 ohm /square per 1.0 mil (25microns) dry film
Conductive paint application parameters (The state of being coated on a product)	less than 0.08~0.32 ohm / 20 micron thickness / distance 10cm
Suggested conductive paint film thickness	15-25 micron ( ASTM D4138-94 )

### User Guidelines:

- 1) **Paint Mixing:** Diluted by ethanol, additive amount of 30%-50% ( i.e.1:0.3-0.5 ) by weight ratio of conductive paint.

### 2) Spraying and tools:

Side pot or a pot of paint spray gun can be used. Caliber is generally 0.3-2.0mm. Small items are suggested to use about 0.5mm diameter spray gun, and bulky items use 1.5-2.0 diameter spray gun.

Generally distance of spray gun and spray products should be 100-150mm and not above 200mm. Spray should be uniform and the film thickness should be more than 15 microns to achieve good electrical performance.

### 3) Use materials:

ABS, HIIPS, PS, PC and other plastic parts, and other composite materials or metal materials, but it must be not smooth surface. ( Another suitable conductive paint will be developed if it is used for special materials.)

### 4) Drying Conditions:

Dry time is 15 minutes; drying time is 30 minutes at 65 degree bake.  
Air dry time is more than 4 hours.

### 5) Test Conditions:

Test should be done after sprayed conductive paint film has completed cooled and dried.

### Notes:

- Make sure to use side port or a pot spray gun to spray conductive paint.
- Small items are suggested to use K-3 spray gun and large items use W-71 spray gun.
- Conductive paint should be stirred fully and well in pot before use, and then it could be diluted. If stirring fully and evenly, metal particles are dispersed evenly to make sprayed conductive paint film achieve best conductivity.
- It is better to stir frequently and stirring frequency should be less than 5 minutes to achieve best performance.
- Conductive paint should be used as soon as possible to avoid long term storage after opening.
- Due to easy precipitation of metal power, its performance will not be affected after stirring.
- Protective measures: During using conductive paints, please ensure operating environment is well ventilated and avoid prolonged direct contact or inhalation. Not allowed to pour conductive paint into drains or sewers to pollute environment.
- Storage: conductive paints are sealed and stored in ventilated and dry indoor environment.
- Shelf Life: 6 months at 25°C ( intact )

Disclaimer: The information provided in this Technical Data Sheet (TDS) is compiled in good faith and obtained using procedures performed at Mogreat company and to the best of our knowledge. The information on this TDS has been updated on the date printed, and latest versions can be obtained upon request. The customer is responsible for conducting tests to determine whether our products are compatible with the customer's process and specific applications.

**Mogreat**®  
Mogreat Technologies Co.,Ltd.  
[http:// www.mogreat.com](http://www.mogreat.com)  
All Rights Reserved. 2023