

## High-Temperature Silver Paste DT850X

DT850X is a high-temperature sintered conductor paste. It is non-toxic element up to European RoHS environmental regulation.(2002/95/EC) It has features of strong adhesive force, good weldability, excellent ageing resistance, and good conductivity. DT850X is designed on various ceramic thick film circuit, thick film heater, element plate and so on.

	DT8501	DT8502	DT8503	DT8504	DT8505
Silver Content (%)	80	75	70	65	60
Viscosity	70±25 Pa·s ( 10 rpm, 25° C±0.5° C, 1min)				
Fineness	<10µm				
Solid Content	82±2%				
Screen Mesh	250~300 stainless steel screen				
Leveling Time	at room temperature, 2~3min				
Drying	120~150° C / ( >15 min)				
Firing	850°C/>10min				
Film Thickness	14±2 µm				
Conductivity(mΩ/sq)	≤3	≤3	≤4	≤4	≤5
Solderability	Excellent	Excellent	Good	Good	Good
Weldability	≥4 times (235°C, 10s, PbSn solder)				
Adhesion(N/2×2mm <sup>2</sup> )	≥60	≥50	≥40	≥30	≥20
Thinner	LEED DZ-XS				
Shelt Life	6 Months (5~25°C)				

### Notice of usage and storage:

1. The used material should be collected and sealed up alone. Don't mix with other untapped material.
2. Before using the paste, it is essential to take out of from icebox or icehouse firstly and place it at about 25°C. Keep stir it slowly and fully till the composition of this paste is uniform.
3. It should be guarantee that the room temperature and appliance temperature remains 26±2°C during printing.
4. Paste material placed on the screen should be moderate and added regularly when making screen-printing.
5. Dilute the paste moderately to recover the printing performance.
6. The storage temperature is recommended between 5 and 25°C. The shelf time is commonly 6 months.

## Mesothermal Silver Paste DT550X

DT550X is a mesothermal sintered conductor paste. It is non-toxic element up to European RoHS environmental regulation.(2002/95/EC) It has features of strong adhesive force, good weldability, excellent ageing resistance, and good conductivity. DT550X is designed on alumina ceramic, quartz glass substrate,, chip component, consumed hybrid integrated thick film circuit, heating element and household appliances.

	DT5501	DT5502	DT5503	DT5504	DT5505
Silver Content (%)	80	75	70	65	60
Viscosity	70±25 Pa·s ( 10 rpm, 25° C±0.5° C)				
Fineness	<10µm				
Solid Content	82±2%				
Screen Mesh	250~300 stainless steel screen				
Leveling Time	at room temperature, 2~3min				
Drying	120~150° C / ( >15 min)				
Firing	550°C/(10min)				
Film Thickness (µm)	14±2µm				
Conductivity (mΩ/sq)	≤3	≤3	≤4	≤4	≤5
Solderability	Excellent	Excellent	Good	Good	Good
Weldability (N/2×2mm <sup>2</sup> )	≥2 times (235°C, 10s, PbSn solder)				
Adhesion (N)	≥60	≥50	≥40	≥30	≥20
Thinner	LEED DZ-XS				
Shelt Life	6 months (5~25°C)				

### Notice of usage and storage:

1. The used material should be collected and sealed up alone. Don't mix with other untapped material.
2. Before using the paste, it is essential to take out of from icebox or icehouse firstly and place it at about 25°C. Keep stir it slowly and fully till the composition of this paste is uniform.
3. It should be guarantee that the room temperature and appliance temperature remains 26±2°C during printing.
4. Paste material placed on the screen should be moderate and added regularly when making screen-printing.

5. Dilute the paste moderately to recover the printing performance.
6. The storage temperature is recommended between 5 and 25°C. The shelf time is commonly 6 months.