

## Screenable Silver Ink For Membrane Switches DT1201

### Description

DT1201 is a low temperature solidified silver paste designed for membrane switches. It through making silver, choosing high molecular polymer resin, solvent and additive, modification research, solved the relation between high adhesion of film and heat-drying, and the problem between homogenization of thin-layer and change of film shape. This product has features of low heat-drying temperature(80 ~ 120°C), short-drying time(20 ~ 30min), low resistivity, good adhesion, superior abrasion resistance and creasability.

### Typical Application

Membrane Switches	Printed Antennas	Heating Element
Flexible Circuits	RFI Shielding	

### Typical Properties

<b>Performance</b>	
Substrate	PET or PI film
Screen Mesh	200~300 polyester/stainless steel screen
Heat Resistance	85°C, 500h, $\Delta R < 10\%$
Moisture Resistance	65°C, 95%RH, 500h, $\Delta R < 10\%$
Curing	120°C/30min, 150°C/20min
Sheet Resistance	$\leq 40m \Omega / \square$ (200 mesh)
Adhesion	no exfoliation(3M600 adhesive tape*60s, 135 degree angle, 10cn/s)
Hardness	$\geq 2H$ (45 degree angle, push cured surface by pencil with the force of 2kg)
Heat/Cycle Resistance	RC in resistivity-10%(-20°C-80°C, 30min/cycle) 100cycles
Flexibility	R/R < 300% (leading wire 0.6mm*1000mm, bend 2kg*1min*10times)
Test of Flexibility	On PET film (100 $\mu$ m), leading wire 0.6*1000mm, bended for 4 times, infolding/2kg, out-folding/2kg, 1min/cycle, test RC in resistivity after 10 cycles

### Notice of Usage And Storage

1. Precautions: This product contains organic solvent. Harmful if swallowed inhaled, or absorbed through skin. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed when not in use. Use with adequate ventilation. Avoid breathing vapor.(See LEED material safety data sheet for current safety and first aid instructions.)
2. This product is supplied ready for use and hence does not require dilution, although it can be thinned with less than 2% if preferred, too much thinner will affect directly performance of paste.
3. The thickness of printing line should over 3 $\mu$ m, or result in paste instability.
4. Store at 4~25°C shelf life for this product is 6 months from date of qualification under original seal. Keep

from freezing.

**NOTE:**The product specification will not stand for the test performance of the batch paste, the actual tested result of paste batch performance shall be deemed the original. If special requirement ,please contact with LEED marketing department.

## Silver Ink For Printed KeyboardsDT1202

### Description

DT1202 is a low temperature solidified silver paste designed for membrane-keyboards and plexible printed circuits,it has high solid contend with the features of good conductivity,excellent printability and excellent oxidation resistance,it will suit different curing temperature and substrates,good adhesion that no matter if it treated by printing ink,it is a standard silver paste can be used for thin film screen printing. It will be used for thin film printing and pin-waled printing.

### Typical Application

PC Computer Keyboards                      Notebook Computer Keyboards  
Standard Membrane Switches

### Typical Properties

Performance	
substrate	PET or PC
Screen Mesh	200~300 polyester/stainless steel screen
Curing	120℃~140℃/30min
Viscosity	10~20pa·s
Theoretical Coverage	100~200cm <sup>2</sup> /g
Resistivity	<40mΩ/□(200 mesh)
Adhesion	No exfoliation(3M800 adhesive tape*60s,135 degree angle, 10cm/s)
Hardness	>2H(45 degree angle,2kg)
Flexibility	△ R/R<300% (leading wire 0.6mm*1000mm,bend 2kg*1min*10times)
Long-term Working Temperature	<70℃

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2. This product is supplied ready for use and hence does not require dilution, although it can be thinned with less than 2% if preferred, too much thinner will affect directly performance of paste.
3. The thickness of printing line should over 3μm, or result in paste instability.
4. Store at 4~25℃ shelf life for this product is 6 months from date of qualification under original seal. Keep

from freezing

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## Screenable Silver Ink For Tantalum Capacitor DT1203

### Description

LEED series low temperature solidified silver paste DT1203 is designed for ceramic capacitor, it can dip and overlay. It is mixed by silver and organic carrier of 50% quality score for each, it can solder by 260 °C for 2~3 seconds. This product has good compatibilities with element, and the features of good solderability, tantalum capacitor made by our paste shows glossy surface, dense structure and low cost after curing according the technics.

### Typical Properties

Performance	
Substrate	graphite substrate
Solid Content	65%
Viscosity	10~20 Pa•S (25 °C, Brookfield# 52 @0.5rpm)
Curing	80 °C/30min/ 120 °C/20min
Sheet Resistance	$\leq 8m \Omega / \square(25\mu m)$
Pattern Resistance	$5 \times 10^{-5} \Omega .cm$
Shearing Strength	$\geq 12MPa$
Loss in Weight	<3.5%

### Notice of Usage And Storage

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4. Store at 4~25 °C shelf life for this product is 6 months from date of qualification under original seal. Keep from freezing.

**NOTE:**The product specification will not stand for the test performance of the batch paste, the actual tested result of paste batch performance shall be deemed the original. If special requirement ,please contact with LEED marketing department.