

DryCure Ag-J; Conductive Silver Nanoink for Inkjet-Printing

Product Description

C-INK DryCure Ag-J series are silver based conductive ink designed to provide excellent conductive patterning by stable inkjet printing.

Product Benefits

- Inkjet Printing
Stable, semi-automatic, manual
- Substrate
Rigid/Flexible, Plastic, Glass, Ceramics, Paper
- Inkjet Nozzle
Piezo electric/Thermal
- Typical Drying Condition
Substrate dependent, 60-250°C/5-60 min
- Typical Circuit Line Thickness
1-2 μm for a pass inkjet printing
- High Quality Printed Patterning
No degradation 95%RH, 85°C/1000 h

Ink Preparation

The ink should NOT be touched with salts, surfactant, and oil. Well cleaned plastic vessel and line are recommended.

Table 1

Test	Properties
Viscosity	4 or 10 mPa·s
Surface tension	30 mN/m
Metallic content	10 or 20 wt%
Adhesion	Any plastic substrate, Glass, ITO, Ceramic
Odor	Water base low odor ink
Resistivity	~5 μΩ·cm depending on drying temperature

Drying

Depending on the temperature tolerance of the substrate, DryCure Ag-J series can be dried at temperatures between 60 °C and 250 °C. Drying time can vary depending on the efficiency of the dryer. Longer drying time and higher drying temperatures will improve the adhesion, resistivity and abrasion resistance.

Printing

Printing should be carried out in a clean, well-ventilated area. Substrates heating during printing improve the printing quality.

Storage and Shelf Life

Containers may be stored in a clean, stable environment at room temperature (between 5°C-30°C), with their lids tightly sealed without inside air. Storage in high temperature (>30°C) or in freezers (temperature <0°C) is NOT recommended as this could cause irreversible changes in the material. The shelf life of composition in factory-sealed (unopened) containers between (5°C-30°C) conditions is 6 months from date of shipment.

Safety and Handling

For information on health and safety regulations please refer to the specific product MSDS.

For more information on DryCure Ag-J series, please see our web site and your local representative.

http://cink.jp/english/index_e.html or <http://cink.jp>