

Ag

PRODUCT FEATURES

- ✓ Easy to use and quick drying
- ✓ Excellent electrical conductivity and low surface resistivity
- ✓ Exceptional adhesion to a variety of materials
- ✓ Cures at room temperature
- ✓ Easy & Economic in use

Silver

NANOPARTICLES
CONDUCTIVE INK



Product Description

Silver conductive ink is highly conductive in nature. This innovative ink made from a unique combination of compounds, which is developed precisely to form the electrically conductive glue. It is usually used to convert an insulative surface into a conductive surface. It provides very low shrinkage, excellent electric conductivity, excellent bonding strength and aging resistance and fast cure speed at lower temperature.



Ag

Quick Facts

CAS	:	7440-22-4
Purity	:	99.9%
APS	:	30-100nm
Appearance	:	Liquid

PROPERTIES

Viscosity 70-100 cP

Resistivity <300 $\mu\Omega$.cm, 20 °C

Curing Temperature 180-200°C

Boiling Point 2162°C

Density 1.22g/cm³

Substrate Plastic Film, ITO glass, ITO film & many more

Adhesion Non scratch able, add 2% of ECA by volume (little by little)

Storage Temp. 7-15°C

Application

- ✓ Flexible circuit boards, printed circuit boards (PCBs)
- ✓ RFID tags
- ✓ Touch screens
- ✓ OLED
- ✓ Flat panel display backplanes (TFT electrodes and bus-bars)
- ✓ EMI Shielding: plasma display, LCD, etc
- ✓ Solar cells, solar panels
- ✓ Flexible antennas

To avoid premature solvent evaporation and lower risks of screen blockage the ink should be print-flood processed.

CLEAN-Up

Equipment can be cleaned using alcohols such as iso-propanol and acetone.

STORAGE AND shelf-life

Shelf life is six months from date of manufacture when stored at -30°C in original, unopened container. Syringe must be maintained at -30°C in a vertical (upright) position with the dispense tip facing down. Do not store syringe on its side (horizontally).

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