

SILVER CONDUCTIVE INK

Nanopaint's SInk01NP® is a screen-printing silver paste with stretchable properties. It can be used in several applications such as wearable electronics, sensors and medical devices. The SInk01NP® can be printed on a variety of substrates such as textiles, elastomer substrates, PET, Polyimide, and glass, among others.

INK FEATURES

- ✓ High conductivity
- ✓ High magnetic response
- ✓ Easy screen printable
- ✓ Of easy cleaning
- ✓ Stretchable
- ✓ Flexible
- ✓ Easy processability

INK PROPERTIES

Apparency	Silver
Cure processing	Thermal cure
Solids content	65%
Viscosity	8 000 – 20 000 cP
Volume resistivity (120 °C)	<72 $\mu\Omega$.cm
Sheet resistance (120 °C)	<29 m Ω /sq

HANDLING PROPERTIES

Processing	Let the ink reach room temperature and stir slowly with a spatula to avoid formation of air bubbles
Printing equipment	Screen printer, doctor blade printing, stencil printing
Screen meshes	90-120T polyester mesh
Printing speed	30-80 mm/s
Squeegee	80A Shore
Drying conditions	120 °C for 20 minutes in a regular or ventilated oven
Clean-up solvent	Nanopaint's cleaning solvent Clear100NP on press wash and mesh opener



Substrates

Glass, PET, PEN, MELINEX, Textile (...)

Storage

Should be kept well sealed in its container in a fridge at 4 °C.

Shelf-life

Ink in an unopened container has a recommended shelf life of 6 months from the date of delivery

