

## TRANSPARENT SILVER CONDUCTIVE INK

Nanopaint's TInk02NP® is a transparent conductive silver ink that is used for thin-film PV, display, sensors and general printed electronics applications. The TInk02NP® can be used in a variety of plastic substrates and glass.

### INK FEATURES

- ✓ High conductivity
- ✓ High transparency
- ✓ Easy screen printable
- ✓ Of easy cleaning
- ✓ Water-based
- ✓ Flexible
- ✓ Easy processability

### INK PROPERTIES

Apparency	Silver dispersion
Cure processing	Thermal cure
Solids content	5%
Viscosity	<5 000 cP
Sheet resistivity	<100 Ω/sq (140 °C)
Transparency	>94% (600nm)

### HANDLING PROPERTIES

Processing	Let the ink reach room temperature and stir gently with a spatula to avoid the formation of air bubbles
Printing equipment	Screen printer, doctor blade printing
Screen meshes	120T polyester mesh
Squeegee Hardness	60-75 Shores
Drying conditions	140°C for 20 minutes in a regular or ventilated oven
Clean-up solvent	Nanopaint's cleaning solvent <b>Clear100NP</b> on press wash and mesh opener
Substrates	Glass, PET, PEN, MELINEX, (...)
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

