

INSULATOR INKS and PROTECTIVE COATINGS

Nanopaint has **non-conductive insulator inks** available. These inks are typically used as insulating layers, providing additional protection to the printed circuit. The inks are thermally cured and show great flexibility and elasticity, as well as great adhesion to a variety of substrates.

INK FEATURES

- | | |
|-------------------------|-----------------------|
| ✓ High stretchability | ✓ Of easy cleaning |
| ✓ Flexible | ✓ Fast Curing |
| ✓ Easy screen printable | ✓ Easy processability |

INK PROPERTIES

| | IN01NP® | IN02NP® | IN03NP |
|--------------------------|--------------------|-------------------------------|--|
| Apparency | Transparent | White | Blue |
| Cure processing | Thermal cure | | |
| Viscosity (mPa.s) | 2000 - 5000 | 10000-20000 | 10000-15000 |
| | Protective coating | Stretchable insulator coating | Insulator coating (can be overprinted) |

HANDLING PROPERTIES

| | IN01NP® | IN02NP® | IN03NP |
|---------------------------|---|-----------------------------|----------------------------|
| Processing | Stir with a spatula before using | | |
| Printing equipment | Screen printer | | |
| Screen meshes | 55-90T polyester mesh | | |
| Squeegee Hardness | 60-75A | | |
| Drying conditions | 60-100°C for 5 minutes | 100-120°C for 20-30 minutes | 120-140°C for 10-20minutes |
| Substrates | Textile, PET, PVC, PC, PMMA | Textile,TPU, PET, PVC, PC | PET, Mylar, PC |
| Clean-up solvent | Nanopaint's cleaning solvent Clear100NP | | |
| Storage | Should be kept well sealed, in a cool and dry place, and away from direct sunlight. | | |
| Shelf-life | Ink in an unopened container has a recommended shelf life of 4 months from the date of delivery | | |

