

INSULATOR INKS

Nanopaint has two **non-conductive insulator inks** available: **IN01NP®** (solvent-based) and **IN02NP®** (solvent-free). These inks are typically used as insulating layers, providing additional protection to the printed circuit. Both 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 |
| ✓ Fast curing | ✓ Flexible |
| ✓ Easy screen printable | ✓ Easy processability |

INK PROPERTIES

| | IN01NP® | IN02NP® |
|-----------------|----------------|----------------|
| Apparency | | Transparent |
| Cure processing | | Thermal cure |
| Viscosity | 2000 - 5000 cP | 2000 – 6000 cP |

HANDLING PROPERTIES

| | IN01NP® | IN02NP® |
|--------------------|--|---------------------|
| Processing | Slightly stir before using | |
| Printing equipment | Screen printer, doctor blade printing | |
| Screen meshes | 55-120T polyester mesh | |
| Squeegee Hardness | 60-70A | |
| Drying conditions | 60°C for 5 minutes | 130°C for 3 minutes |
| Substrates | Glass, PET, MELINEX, Textile | Textile |
| Clean-up solvent | Nanopaint’s cleaning solvent Clear100NP on press wash and mesh opener | |



Storage

Should be kept well sealed, in a cool and dry place, away from direct sunlight.

Shelf-life

Ink in an unopened container has a recommended shelf life of 3 months from the date of delivery