

## FERROMAGNETIC INK

**Nanopaint's FMInk01NP®** is a screen printable ferromagnetic ink. It is produced through a high-quality process in order to exhibit a unique set of inherent magnetic properties. The ink exhibits ferromagnetic behaviour with a high magnetic response.

### INK FEATURES

- |                                |                       |
|--------------------------------|-----------------------|
| ✓ High dispersion and isotropy | ✓ Ferromagnetic       |
| ✓ High magnetic response       | ✓ Great flexibility   |
| ✓ Custom formulation suitable  | ✓ Easy processability |
| ✓ Easy screen printable        | ✓ Of easy cleaning    |

### INK PROPERTIES

Apparency	Dark brown/Black
Cure processing	Thermal cure
Solid content (%)	45%
Viscosity	5 000 – 10 000 cP
Particle size (nm)	35-45

### MAGNETIC PROPERTIES

Magnetization saturation ( $\text{emu.g}^{-1}$ )	6
Remanence ( $\text{emu.g}^{-1}$ )	3
Coercive Field (Oe)	2500

### HANDLING PROPERTIES

Processing	Vigorously stir with a spatula
Printing equipment	Screen printer, doctor blade printing
Mesh count, warp (n/cm)	55-63



<b>Squeegee hardness</b>	60-75 Shores
<b>Cure conditions</b>	60 °C for 10 minutes in a regular or ventilated oven
<b>Clean-up solvent</b>	Nanopaint's cleaning solvent <b>Clear100NP</b>
<b>Substrates</b>	Glass, PET, PEN, MELINEX, Milar (...)
<b>Storage</b>	Should be kept well sealed in its container, away from direct sunlight and stored at a controlled temperature between 10 - 20°C
<b>Shelf-life</b>	Ink in an unopened container has a recommended shelf life of 3 months from the date of delivery

