

SOLVENT-FREE FERROMAGNETIC INK

Nanopaint's FMInk02NP® is a solvent-free 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	✓ Stretchable on an appropriate substrate
✓ Of easy cleaning	✓ Not harmful for health
✓ Temperature resistance	✓ Applied to a variety of materials

INK PROPERTIES

Apparency	Dark brown/Black
Cure processing	Thermal cure
Solid content (%)	45%
Viscosity	15 000 – 20 000 cP
Particle size (nm)	35-45

MAGNETIC PROPERTIES

Magnetization saturation (emu.g ⁻¹)	6
Remanence (emu.g ⁻¹)	3
Coercive Field (Oe)	2500

HANDLING PROPERTIES

Processing	Stir vigorously with a spatula
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Printing equipment	Screen printer, doctor blade printing
Mesh count, warp (n/cm)	61-80
Squeegee hardness	60-75 Shores
Cure conditions	100°C for 5 minutes in a regular or ventilated oven
Clean-up solvent	Nanopaint's cleaning solvent Clear100NP
Substrates	Glass, PET, PEN, MELINEX, Milar or Textile
Storage	Should be kept well sealed in its container, away from direct sunlight and stored at a controlled temperature between 10 - 20°C
Shelf-life	Ink in an unopened container has a recommended shelf life of 3 months from the date of delivery