

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 proprieties. 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



NanoPaint, Lda.

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Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

The information and the products are for use by technically skilled people at their own discretion and risk and do not relate to the use of this product in combination with any other substance or any other process.

Functional Inks Technical Data Sheet - FMInk01NP®



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



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