SUPERPARAMAGNETIC INK

MAGRON SPMInkNP® is a screen printable superparamagnetic ink, easily solubilized in various solvents, with distinctive properties such as high superparamagnetic behaviour and magnetic response. It is a low-cost solution for the production and implementation of magnetic sensors on rigid or flexible substrates.

INK FEATURES

✓ High dispersion and isotropy	✓ Superparamagnetic
✓ High magnetic response	✓ Flexible
✓ Custom formulation suitable	✓ Easy processability
✓ Easy screen printable	✓ Of easy cleaning

INK PROPERTIES

Apparency	Dark brown/Black
Cure processing	Thermal cure
Solid content (%)	35%
Viscosity	8 000 – 12 000 cP

MAGNETIC PROPERTIES

Magnetization saturation (emu.g^{-1})	2
Remanence (emu.g^{-1})	0
Coercive Field (Oe)	0

HANDLING PROPERTIES

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

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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.

Squeegee hardness	60-75 Shores
Cure conditions	60˚C for 10 minutes in a regular or ventilated oven
Clean-up solvent	MAGRON cleaning solvent **Clear100NP**
Substrates	Glass, PET, PC or paper
Storage	Should be kept well sealed in its container, away from direct sunlight and stored at a controlled temperature between 10 - 20ºC
Shelf-life	Ink in an unopened container has a recommended shelf life of 3 months from the date of delivery

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