# FERROMAGNETIC INK

**MAGRON 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 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
- ✓ 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 (emu.g$^{-1}$)** | 6 |
| **Remanence (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 |

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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, PEN, MELINEX, Milar (…) |
| **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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