

MAGNETIC INK

Nanopaint's **FMIInk02NP®** is a water-based Magnetic ink with a magnet effect for screen printing. It is produced through a high-quality process to exhibit a unique set of inherent magnetic properties. The ink exhibits ferromagnetic behaviour with a high magnetic response.

INK FEATURES

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|--------------------------------|---|
| ✓ High dispersion and isotropy | ✓ Itself magnetised |
| ✓ 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 |

INK PROPERTIES

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

HANDLING PROPERTIES

| | |
|-------------------------|---|
| Processing | Stir vigorously with a spatula |
| Printing equipment | Screen printer, doctor blade printing |
| Mesh count, warp (n/cm) | 43-65 |
| Squeegee hardness | 60-75 Shores |
| Cure conditions | 100°C for 3-5 minutes in a regular or ventilated oven |
| 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 |

