

## Nanopaint Ferromagnetic Ink

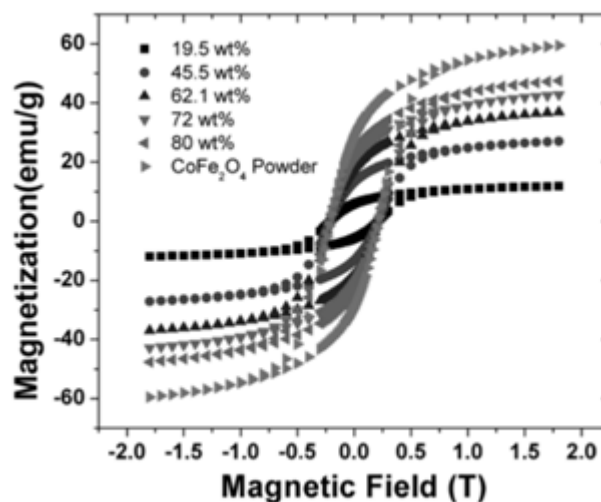
Nanopaint ferromagnetic ink are produced through a high quality process in order to exhibit a unique set of inherent magnetic proprieties. It can be applied on various substrates, such as glass, PET, PC or paper, by various techniques:

- Screen printing
- Doctor blade printing
- Stencil printing
- Spray printing

Nanopaint ferromagnetic ink is easily solubilized in various solvents, showing distinctive properties such as:

- High dispersion and isotropy;
- Ferromagnetic behaviour with high magnetic response;
- Great flexibility allowing the production of flexible sensors;
- Easy processability allowing different sensor configurations;
- Custom formulation suitable for each type of printing technique.

Magnetization vs. magnetic field for a 50 µm thickness solvent-casting film.



**NOTE:**  
Mix the ink before use.  
Do not use magnetic stirring!

### Technical Properties

Melting Temp. range (°C)

Density (g/cm<sup>3</sup>)

0.85 – 1.9

### Magnetic properties

Magnetization saturation (emu.g<sup>-1</sup>)

6

Remanence (emu.g<sup>-1</sup>)

3

Coercive Field (Oe)

2500

### Screen Printing properties

Mesh opening (µm)

75

Open area (%)

35

Mesh count, warp (n/cm)

80

Wire diameter, warp (µm)

48

Tension on mesh (N)

17-20