

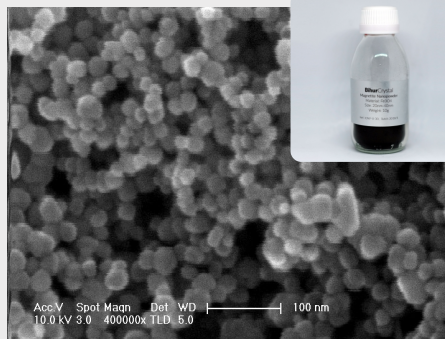
# Nanoparticles

## Magnetite Nanopowder

Nanomaterials

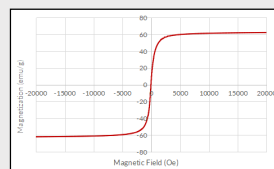
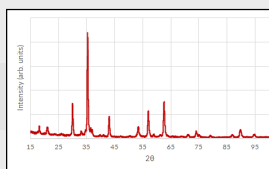
### Description

Iron Oxide nanoparticles have found a wide range of applications, due mainly to their paramagnetic behavior and very low toxicity. This Nanopowder is composed of Iron Oxide ( $Fe_3O_4$ ) nanoparticles with typical sizes (SEM) in the 20-40 nm range. It can be provided in dry (liophilized) form or dispersed in a specific solvent. Nanopowder can be customized to fit the needs of your particular application, and is also produced in large quantities and meeting specific production deadlines. Please get in touch with us if you have specific requests.



### Properties

<b>Chemical composition</b>	$Fe_3O_4$ (magnetite) CAS Num. 1317-61-9
<b>Particle Diameter</b>	20 - 40 nm
<b>Saturation Magnetization</b>	62 emu/g



### Applications

Groundwater and wastewater cleanup	Magnetic coatings
Pigments in automotive and cosmetics industries	High-density magnetic recording
Polishing media	Magnetic detectors
Electromagnetic wave absorption	Magnetic refrigeration
Magnetically controlled transport of anti-cancer drugs	Electromagnetorheological fluids