

## American Elements Iron Oxide Nanopowder

Category : Ceramic , Oxide

**Material Notes:**

General Description Iron Oxide ( Fe<sub>2</sub>O<sub>3</sub> and Fe<sub>3</sub>O<sub>4</sub>) Nanopowder or Nanoparticles, nanodots or nanocrystals are ferric and ferrous spherical or faceted high surface area oxide magnetic nanostructure particles. Nanoscale Iron Oxide Particles are typically 20-40 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m<sup>2</sup>/g range and also available in with an average particle size of 100 nm range with a specific surface area of approximately 7 m<sup>2</sup>/g. Nano Iron Oxide Particles are also available in ultra high purity and high purity, transparent, and coated and dispersed forms. Applications for Iron Oxide Nanocrystals include in magnetic resonance to provide a contrast at very low concentrations in the nanomolar range for studying tumors, as Magnetic Nanoparticles capable of killing malignant cancer cells, as a targeted delivery vehicle and as a drug delivery coating for nanoscale anticancer drugs, for magnetic data storage and magnetic resonance imaging (MRI) and in coatings, plastics, nanowire, nanofiber and textiles and in certain alloy and catalyst applications. Further research is being done for their potential electrical, dielectric, magnetic, optical, imaging, catalytic, biomedical and bioscience properties.

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[http://www.lookpolymers.com/polymer\\_American-Elements-Iron-Oxide-Nanopowder.php](http://www.lookpolymers.com/polymer_American-Elements-Iron-Oxide-Nanopowder.php)

Physical Properties	Metric	English	Comments
Particle Size	0.020 - 0.040 µm	0.020 - 0.040 µm	
	0.10 µm	0.10 µm	
Specific Surface Area	7.0 m <sup>2</sup> /g	7.0 m <sup>2</sup> /g	
	30 - 50 m <sup>2</sup> /g	30 - 50 m <sup>2</sup> /g	
Molecular Weight	159.69 g/mol	159.69 g/mol	

Descriptive Properties	Value	Comments
Appearance	Brown Powder	

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