



## **Amine Iron Oxide Nanoparticles**

### **PRODUCT DATA SHEET**

## **Amine Iron Oxide Nanoparticles**

### **Description**

Amine Iron Oxide Nanoparticles are a special type of nanomaterial obtained by modifying the surface of Iron Oxide Nanoparticles with Amine. Amine Iron Oxide nanoparticles typically have high specific surface area, excellent magnetic properties, and adjustable surface properties. Amine Iron Oxide nanoparticles can be used to modify other materials, such as plastics, rubber, fibers, etc., to enhance their functionality; Can be used as a catalyst or catalyst carrier in chemical synthesis; As a tool for drug delivery systems or biological imaging in diagnosis and treatment. It has a wide range of applications in the fields of medicine and chemical engineering.

Abvigen Inc can provide high-quality Amine Iron Oxide Nanoparticles (5 nm - 600 nm) with uniform particle size and good chemical stability, which can meet various personalized material needs such as customer research and development, testing, and production consumption.

For custom sizes, formulations or bulk quantities please contact our customer service department.

**website:** [www.abvigen.com](http://www.abvigen.com) **Phone:** +1 929-202-3014 **Email:** [info@abvigenus.com](mailto:info@abvigenus.com)



### Characteristics

Diameter: 5 nm - 600 nm

Size: 2 ml; 10 ml

Concentration: 5 mg/ml

Composition: Iron Oxide Nanoparticles

Surface: Amine

Shape: Spherical

Buffer: PBS

Density: 5.18 g/ccm

Standard deviation: CV<5%

Store: Storage at 2 - 8 °C

### Storage

This product should be stored at 4°C. **DO NOT FREEZE.**

### For 5 mg/ml of Amine Iron Oxide Nanoparticles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
5 nm	5	2.95E+15	1.47E+16	100 nm	5	3.69E+11	1.84E+12
10 nm	5	3.69E+14	1.84E+15	200 nm	5	4.61E+10	2.30E+11
15 nm	5	1.09E+14	5.46E+14	300 nm	5	1.37E+10	6.83E+10
20 nm	5	4.61E+13	2.30E+14	400 nm	5	5.76E+09	2.88E+10
25 nm	5	1.09E+14	5.46E+14	500 nm	5	2.95E+09	1.47E+10
30 nm	5	1.37E+13	6.83E+13	600 nm	5	1.71E+09	8.53E+09

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### **Advantages**

Higher specific surface area

Uniform particle size

Good magnetism

Good biocompatibility

Strong chemical stability

### **Applications**

Materials and Chemical Engineering

Catalyst or catalyst support

Electrode material

Drug delivery and bioimaging

Water treatment and air purification

### **Ordering Information**

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