

Magnetite Iron Oxide Powder



NS6130-12-000289

APS
1 μ m



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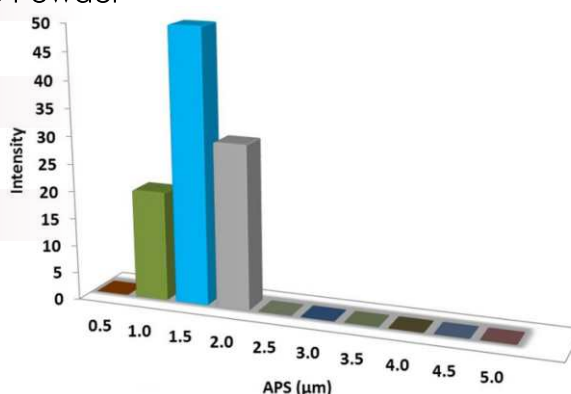
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Magnetite Iron Oxide Powder

Magnetite micro powder is used in a variety of applications, from biomedical to environmental. One use is in water purification: in high gradient magnetic separation, magnetite powder introduced into contaminated water will bind to the suspended particles (solids, bacteria, or plankton, for example) and settle to the bottom of the fluid, allowing the contaminants to be removed and the magnetite particles to be recycled and reused. This method works with radioactive and carcinogenic particles as well, making it an important cleanup tool in the case of heavy metals introduced into water systems. These heavy metals can enter watersheds due to a variety of industrial processes that produce them, which are in use across the country. Being able to remove contaminants from potential drinking water for citizens is an important application, as it greatly reduces the health risks associated with drinking contaminated water.

Quick Facts

Product	:	Magnetite Iron Oxide Powder
Stock No	:	NS6130-12-000289
CAS	:	1317-61-9
Purity	:	99.9%
Color	:	Black
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight	Melting Point
Fe_3O_4	1μm	231.53 g/mol	1597 °C

Chemical Composition

Product	Weight Percent (nominal)	
	Fe_3O_4	Other Metal
Magnetite Iron Oxide Powder	99.9%	0.1%

Applications

- Radioactive application
- Biomedical applications
- Environmental applications
- Industrial catalyst

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