

# Iron III

## Oxide Powder



APS  
40-50μm

NS6130-12-000287



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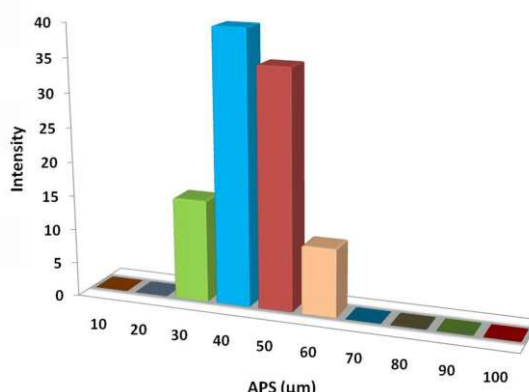
# Iron III Oxide Powder

Iron oxide particles are known to be non-toxic and are eventually broken down and incorporated into hemoglobin. Due to this reasons, super paramagnetic iron oxide nanoparticles have been recognized as a promising tool for the site-specific delivery of drugs and of diagnostic agents. The application of small iron oxide powder during in vitro diagnostics has been practiced for nearly 40 years. Specifically, studies have included mostly maghemite,  $\gamma\text{-Fe}_2\text{O}_3$ , or magnetite ( $\text{Fe}_3\text{O}_4$ ) single particles about 20-50 $\mu\text{m}$  in diameter, as these are very promising candidates due to their biocompatibility and relative ease to functionalize for a wide range of applications

A mixture of ferrous or ferric oxides constitutes iron oxides provided for pigments. These may contain impurities of manganese oxides, clay and silica. Oxides of iron remain one of the pigments of natural origin inclusive titanium dioxide. They are highly valued because they possess non-toxic, inert, opaque and weather-resistant properties. Oxides of iron constitute the main component of products in the pharmaceutical industry, paint industry, plastic industry, ink industry and cosmetic industry.

## Quick Facts

Product	:	Iron III Oxide Powder
Stock No	:	NS6130-12-000287
CAS	:	1309-37-1
Purity	:	99.5%
Color	:	Red-brown
Form	:	Powder



## Technical Specification

Formula	APS	Molecular Weight	Melting Point
$\text{Fe}_2\text{O}_3$	40-50 $\mu\text{m}$	159.69 gmol <sup>-1</sup>	1565 °C

## Chemical Composition

Product	Weight Percent (nominal)	
	$\text{Fe}_2\text{O}_3$	Other Metal
Iron III Oxide Powder	99.5%	0.1%

## Applications

- Pharmaceutical Industry
- Paint Industry
- Plastic Industry
- Ink Industry
- Cosmetic Industry

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