

Product Information/ Analysis

Description

Type:	High Purity Synthetic Magnetite
Form:	Powder
Chemical Class:	Synthetic Iron Oxide – Magnetite – Fe ₃ O ₄
CAS-Number:	1317-61-9
Product Code:	FE3O4M1
Lot Number:	Q4C1011 (202401)

Chemical Composition

	Typical	Spec
IRON OXIDE	99%	>98%
Magnetite (Fe ₃ O ₄)	97%	
Hematite (Fe ₂ O ₃)	1.9%	
Wustite (FeO)	0.0%	
Color	Black	Black
Magnetic particles	>99%	>98%
Moisture	<1%	<2%
Trace Elements	Not tested	
Bulk Density	38 lbs/ft ³	
Apparent Density	0.60 g/cm ³	
Specific Gravity	5.15 g/cm ³	
Specific Surface Area	2.3 m ² /g	
Numeric Particle Size		
D10	2.0 μm	
D50	13.05 μm	
D90	72.3 μm (Not confirmed)	
Magnetic Saturation	98 emu/g	>88 emu/g
Magnetic Remanence	20.04 emu/g	
Magnetic Coercivity	115.19 Oe	
Oil Absorption ml/g	15-25	
Tinting Strength %	95-105	
Solubility	Does not dissolve in water	

*The above data are provided as/is with no warranty or guarantee for accuracy and applicability for special use. Buyers must perform their own tests and make final determination for usability of this product in their applications.