



Product Information

PIROX 200HP

Description

Type:	Ultra High Purity Synthetic Magnetite
Form:	Powder
Chemical Class:	Synthetic Iron Oxide – Magnetite – Fe ₃ O ₄
CAS-Number:	1317-61-9

Chemical Composition

	Typical	Spec
Magnetite (Fe ₃ O ₄)	>99%	>98%
Hematite (Fe ₂ O ₃)	0.5%	0.0 – 1.0%
Wuestite (FeO)	0.0%	0.0 – 0.5%
Trace Elements	0.6%	0.2 – 1.0%
Cl	600 ppm	<1000 ppm
S	<10 ppm	
C	300 ppm	
Mn	2500 ppm	
Cr	20 ppm	
Ti	10 ppm	
Mg	450 ppm	
Si	100 ppm	<120 ppm
Ca	150 ppm	<250 ppm
Zr	50 ppm	
Na	100 ppm	<150 ppm
P	10 ppm	
K	20 ppm	
Al	<100 ppm	<300 ppm
As	ND	
Pb	0.2 ppm	
Zn	0.5 ppm	
Hg	ND	
Sn	6 ppm	
Cu	20 ppm	
Ba	ND	
Cd	ND	



Physical Properties

	Typical	Spec
Bulk Density	46 lbs/ft ³	
Tap Density	63 lbs/ft ³	
Specific Gravity	5.23 g/cm ³	
Specific Surface Area	3.0 m ² /g	
Numeric Particle Size		
d50	2.0 μ m	
d90	4.0 μ m	
Magnetic Saturation	90 emu/g	>88 emu/g
Magnetic Remnance	5 emu/g	
Magnetic Coercivity	40 Oe	

Particle Size Distribution

