



Technical Data

Synthetic Black Iron Oxides

Synthetic Black Iron Oxides from Cathay Pigments are high-quality inorganic pigments suitable for a wide range of demanding colorant applications. Typical applications include architectural paints, industrial coatings, product finishes, wood stains, plastics, rubber, ceramics, inks, paper, concrete, stucco, cement and mortar.

The excellent dispersion characteristics, high tint strength and blue shade undertones of our Synthetic Black Iron Oxides make them particularly useful in many of today's high performance coatings. These products offer the solution to dispersion, flocculation and floatation problems commonly associated with carbon black pigments. These cost-effective pigments eliminate the need for more expensive dispersant additives and pre-dispersed liquid pigment concentrates. Produced to strict quality tolerances, our products yield reliable dispersion and rheologic properties offering outstanding tint strength, light fastness, opacity, chemical resistance, exterior durability and compatibility.

Our "BA" grades are highly micronized to offer easy dispersion with high-speed impeller (Cowles type) milling equipment or single & twin screw extruders. Our economical "BB" grades are suitable for use where high-energy media filled dispersion equipment such sandmills or horizontal mills are used, or in applications where high Hegman levels of dispersion are not required. Both grades are tightly controlled for color and chemical properties.

TYPICAL PROPERTIES

Appearance:	Black Powder
Chemical Composition:	Fe ₃ O ₄
Particle Shape:	Cubic
Pigment Index:	Black 11
Color Index:	77499
Tapped Density (g./cm ³):	0.8 -1.1
Density (g./cm ³):	5.0
Iron as Fe ₂ O ₃ :	>98%
Water Soluble Matter:	<0.30%
Moisture (Vol. @ 110°C):	1.0%
Typical pH:	5 – 7

Easy Dispersing "BA" Synthetic Black Iron Oxide:

Physical Property:	BA33
Avg. Particle Size (microns)	0.30
Oil Absorption (g/100g)	22
Hegman	6+

Standard "BB" Synthetic Black Iron Oxide:

Physical Property:	BB33
Avg. Particle Size (microns)	0.30
Oil Absorption (g/100g)	25

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