



Davis Colors™ Black 860

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Pigment Black 11 • Color Index No. 77499 • CAS 1317-65-9

Davis Colors™ Synthetic Iron Oxide Black 860

Description

Davis Colors™ Black 860 is a synthetic magnetite (Fe₃O₄) produced in the aniline process. It is designed for use in concrete, concrete products and mortar. Davis Colors™ 860 is a high-tinting strength inorganic, permanent and inert black pigment characterized by a brownish/gray tint. In addition to its use in concrete, it can also be used in low-gloss coatings, plastics, paper, adhesives, stucco, rubber or other industrial applications. It meets or exceeds ASTM C979-82 standards for pigments used in cement. Davis Colors™ 860 is color-stable in processing temperatures below 180°C (365°F). Above this temperature, it will change color from black to brown and finally to red. It is of sufficient purity for use in packaging or articles that come in contact with food (21CFR), but not suitable for the direct coloration of pet food or cosmetics. All Davis Colors™ iron oxides are manufactured under strict QC and environmental controls for reliable and consistent quality, stable under exposure to sunlight and UV radiation and are alkali, chemical and weather resistant. Davis Colors™ Black 860 is packaged in 50 pound multiwall paper bags and shrink-wrapped onto pallets of 2250 pounds and also available in Mix-Ready® disintegrating bags and True-Tone™ Mortar Color Boxes. *Uses: concrete, mortar, paint, plastics, rubber, stucco and plaster.*

Composition/Typical Properties

Fe ₃ O ₄ content (%)	92 – 95
SiO ₂ + Al ₂ O ₃ content (%)	3 – 4
Oil Absorption (g/100g)	22
Weight per Gallon (lbs)	38.25
Specific Gravity (g/cm ³)	4.6
325 Mesh Retention (%)	0.12
Water Soluble Salts (%)	<0.5
Ignition Loss (%)	1.5
Moisture content (%)	<0.5
pH	4 – 7
Particle Shape	Spherical
Predominant Particle Size (µm)	0.20

Typical Trace Metal Content in Parts Per Million (ppm)

Arsenic (As)	<5
Antimony (Sb)	<5
Cadmium (Cd)	<1
Chromium (III) (Cr)	<400
Copper (Cu)	<400
Lead (Pb)	<10
Mercury (Hg)	<2
Nickel (Ni)	<100
Selenium (Se)	<2

The values for typical contents and trace metals are provided as general information only. They are approximate values for reference and not specifications utilized in our standard QC procedures for color and consistency.

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