Technical Data Sheet
GREEN IRON OXIDE
Construction Applications

Description

Green iron oxide is a combined product of ferrous oxide and iron trioxide. It is a fine solid particle, green in color, that exhibits good resistance to light, heat, atmospheric corrosion, alkalis, and weathering. It has many advantages, such as minimal impact even under intense sunlight, maintaining the stability of its properties and retaining a bright color.

Uses

- It is frequently used in cement and lime in construction applications, as it does not cause deterioration in cement pieces nor reduce the strength of cementitious products.
- Green iron oxide is added directly to cement to color various interior and exterior cementitious surfaces, such as walls, terraces, roofs, columns, corridors, roads, parking lots, stations, etc., as well as in construction ceramics and glazed ceramics, such as face brick, tiles, roof tiles, panels, terrazzo, mosaics, artificial marble, among others.

Characteristics

- Offers a bright green tone with excellent weather resistance and a good cost-benefit ratio. Unlike chromium-based green pigments, green iron oxide is non-toxic and environmentally safe, making it suitable for use in construction, decorative materials, and plastics.

Specifications

Appearance: Powder
Color Index: Combination of Yellow 42 and Blue 15.3

Parameter	Unit	Value	Method
Content	%	≥ 95	ISO1248
Oil absorption	ml/100 g	25-35	ISO787-5
Residue on 325 mesh	%	≤ 0.3	ISO787-7
Water-soluble salts	%	≤ 2.0	ISO787-3

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Moisture	%	≤ 1.0	ISO787-2
pH value	-	6-9	ISO787-9
Loss on ignition (1,000°C, ½ h)	%	-	DIN55913
Bulk density	g/cm^3	0.6-0.9	ISO787-11
Specific gravity	g/cm^3	-	ISO787-10
Particle size BET	µm	0.15	Electron micrograph
Dispersibility (Hegman)	µm	-	ISO787-20
Tinting strength (vs. standard)	%	95–105	ISO787-24
Color difference (Delta E) (vs. standard)	-	≤ 1.5	ISO787-7

Packaging	25 kg bags
Storage	Store in a dry place, at temperatures below 80°C, protected from moisture.
Shelf Life	12 Months

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