Technical Data Sheet
BLUE IRON OXIDE 463
Construction Applications

Description

Blue iron oxide 463 is composed mainly of magnetite, with the chemical formula FeO_{34}. It is a non-toxic, odorless, light-resistant inorganic pigment.

Uses

- Blue iron oxide is widely used in construction materials, mortars, paints, inks, and other fields. As an inorganic pigment, blue iron oxide not only provides color but is also highly environmentally friendly.

Characteristics

- In coloring applications for construction and plastics, blue iron oxide has high tinting strength, good light resistance, low alkali resistance, and high heat resistance.

Specifications

Appearance: Powder
Color Index: Pigment Blue 15.3

Parameter	Unit	Value	Method
Content	%	≥ 95	ISO1248
Oil absorption	ml/100 g	15–25	ISO787-5
Residue on 325 mesh	%	≤ 0.3	ISO787-7
Water-soluble salts	%	≤ 0.3	ISO787-3

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Moisture	%	≤ 1.0	ISO787-2
pH value	-	5–8	ISO787-9
Loss on ignition (1,000°C, ½ h)	%	-	DIN55913
Bulk density	g/cm^3	0.8–1.0	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)	-	≤ 1.0	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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