



# Iron Oxide Red

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## HOT SELLING PRODUCTS

- Redispersible Polymer Powder
- Lomon Billions Titanium Dioxide Series
- Carbon Black
- Tilamon Titanium Dioxide Series
- First-Tier Brands Polyvinyl alcohol
- xanthan gum
- Iron Oxide Red
- Cyanuric Acid

## Brief Introduction:

Iron Oxide Red, also known as ferric oxide or red iron oxide, is a red or deep red powder with the chemical formula  $\alpha\text{-Fe}_2\text{O}_3$ . It has a particle size range of 0.5 to 2  $\mu\text{m}$  and a density of 5.24  $\text{g}/\text{cm}^3$ . It melts at 1565°C while decomposing. This pigment is non-toxic, insoluble in water, and exhibits excellent covering power and tinting strength, second only to carbon black. It also demonstrates superior light fastness, heat resistance, alkali resistance, and resistance to dilute acids and corrosive gases. It dissolves only when heated in concentrated acids.



## Specification:

Property	Unit	Value	Test Method
Color Difference ( $\Delta E$ )	-	$\leq 1.0$	-
Relative Tinting Strength	%	95-105	Titanium Dioxide Dilution (1:10)
Iron Content (as $\text{Fe}_2\text{O}_3$ )	%	$\geq 95$	ISO 1248:2006
Oil Absorption	$\text{g}/100\text{g}$	Agreed	ISO 787-5
Residue on Sieve (325 mesh)	%	$>0.1, \leq 1$	ISO 787-7
Water Solubles	%	$\leq 0.3$	ISO 787-3
Volatile Matter at 105°C	%	$\leq 1.0$	ISO 787-2
pH Value	-	Agreed	ISO 787-9
Heat Loss at 1000°C 0.5h	%	$\leq 5$	ISO 55913
Particle Shape	-	Spherical	-
Primary Particle Size (D50)	$\mu\text{m}$	0.4-0.7	-
Tap Density	$\text{g}/\text{cm}^3$	0.8-1.1	-
Density	$\text{g}/\text{cm}^3$	4.8	-
Light Fastness	Grade	7-8	-
Weather Resistance	Grade	5	-
Heat Resistance	°C	600	-

## Features:

- High covering power and tinting strength
- Excellent light fastness
- Superior heat resistance
- Good resistance to alkalis
- Resistant to dilute acids and corrosive gases
- Non-toxic and insoluble in water
- Stable under normal conditions

## Applications:

- Used as a pigment in paints, coatings, and construction materials
- Applied in the coloring of plastics and rubber products
- Utilized in the manufacture of ceramics and glass
- Employed in the production of magnetic materials and polishing compounds
- Suitable for use in cosmetics and personal care products
- Incorporated in the coloring of paper and inks

#### Package and Storage:

Iron Oxide Red is typically packaged in 25 kg bags or as per customer requirements. It should be stored in a cool, dry place, away from moisture and direct sunlight. Ensure the packaging is tightly sealed to prevent contamination and maintain product quality. Proper handling and storage will ensure the longevity and effectiveness of the pigment.

#### Related Posts:

[Iron Oxide Pigment: Manufacturing, Applications, and Color Control](#)  
[The Versatile World of Iron Oxide Red: A Comprehensive Guide](#)

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- Adhesive
- Construction
- Oilfields
- Paint & Coating
- Rubber & Plastic
- Textile
- Uncategorized
- Water Treatment

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#### Important Posts

- Iron Oxide Pigment: Manufacturing, Applications, and Color Control
- Application of PVA in Warp Sizing
- Polyvinyl Alcohol (PVA) as a Textile Auxiliary Agent: Key Requirements in Warp Sizing and Stiffening Finishing
- Sodium Dichloroisocyanurate and Trichloroisocyanuric Acid: Properties and Applications
- Polyvinyl Alcohol (PVA): Specifications, Applications, and Industry Insights
- Comprehensive Guide to Packaging Options for Cyanuric Acid and Its Derivatives
- Titanium Dioxide: The Ultimate Guide to Specifications and Applications
- Unlocking the Power of Titanium Dioxide: Surface Treatment Methods and Their Benefits
- Polyvinyl Alcohol (PVA): The Science Behind Its Diverse Applications



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