

Ferroxide® High-Purity Synthetic Iron Oxide Red 212P

Description

Ferroxide® 212P is a high-purity yellow-shade precipitated red iron oxide produced from specially selected raw materials under very tight process and quality control procedures. It is used as a food and feed colorant, in cosmetics, tipping paper, plastics, paper, adhesives, rubber and other high-purity applications. Precipitation creates a larger, more uniform, softer and less agglomerated primary particle for increased tint strength, cleaner and more saturated colors, improved rheology and ease of dispersion with less abrasion on equipment. Ferroxide® 212P is color-stable in processing temperatures below 400°C (750°F) and does not undergo any chemical change up to 1000°C (1832°F). It complies with FDA 21CFR standards covering use in food contact articles and European Commission Directive 2008/128/EC Section E172 for Iron Oxides and Hydroxides. All Ferroxide® colors 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. Standard package is 55 Lb. (25 Kg.) multiwall paper bags shrink-wrapped onto pallets of 2205 Lbs. (1000 Kgs.). *Uses: plastics, rubber, adhesives, ink, filter paper, cosmetics and pet food.*

Composition/Typical Properties

Fe ₂ O ₃ content (%)	>97
SiO ₂ + Al ₂ O ₃ content (%)	0.5
Oil Absorption (g/100g)	35
Weight per Gallon (lbs)	41.7
Specific Gravity (g/cm ³)	5.0
Surface Area (m ² /g)	14
Tap Density (g/ml)	0.7
325 Mesh Retention (%)	0.1
Water Soluble Salts (%)	0.3
Ignition Loss (%)	1.0
Moisture content (%)	<1
pH	6
Particle Shape	Spherical
Predominant Particle Size (µm)	0.10



Typical Trace Metal Content in Parts Per Million (ppm)

Arsenic (As)	<0.5
Barium (Ba)	<10
Antimony (Sb)	<0.5
Cadmium (Cd)	<0.5
Chromium (III) (Cr)	20
Copper (Cu)	13
Lead (Pb)	<3
Mercury (Hg)	<0.1
Nickel (Ni)	60
Selenium (Se)	<0.5
Zinc (Zn)	20

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