



COLOR PERFECTION

HIGH PERFORMANCE INORGANIC COLOR PIGMENTS





Iron oxides are CATHAY INDUSTRIES' core business. As the third largest iron oxide manufacturer in the world, CATHAY INDUSTRIES provides a wide range of iron oxide pigments from economical grades for construction applications, to high-quality CATHAYCOAT™ for top coating, and the highest-purity CATHAYPURE™ for cosmetics.

CATHAYCOAT™ is CATHAY INDUSTRIES' premium range of iron oxides. It's made for top coating and fine-quality products like paints, plastics and paper. CATHAYCOAT™ can be divided into four subcategories, from the most-premium micronized "A" grades and LV grade, to standard "S" grades, and more economical "C" grades and Primer grades.

Micronized A Grades

CATHAYCOAT™ Micronized A-grade iron oxides are high-quality pigments tailor-made for top coatings that have premium requirements. With its extra well dispersing properties, it can be used directly for high-speed dispersing without further milling. Therefore it saves time, energy and labor during the production of paints, dispersions and other final products.

Standard Grades



CATHAYCOAT™ S-grade ironoxides are a range of high-quality pigments with attractive prices for paints, plastics, paper and dispersions. Extra milling or dispersant additives can be added to customize and improve the final product.

Low Viscosity Yellow

CATHAYCOAT™ "LV" grade is a unique yellow iron oxide pigment that provides extra-low viscosity in the final dispersion, even at the highest pigment loading.

Economical C Grades

CATHAYCOAT™ C-grade iron oxide is an economical pigment range for coating applications. With our custom specification manufacturing and our advanced, environmentally safe production, this range of iron oxide products provides another choice for excellent cost-performance ratio.

Primer Grades

Primer-grade iron oxides are a range of red pigments that provide high hiding power, easy dispersion and high tinting strength for primer paint applications.



Heat Stable

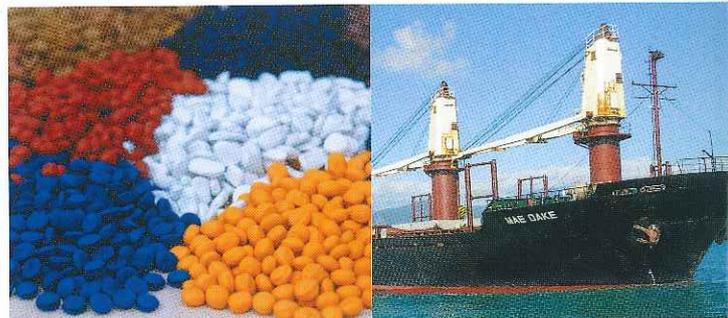
CATHAY INDUSTRIES produces two mixed metal oxide types, Manganese Ferrite and Zinc Ferrite. Both are made with high-temperature calcination and are heat stable for use in applications with temperature changes. These products are offered under the name of CATHAYCOAT™.

Chrome Oxide

Chrome Oxide Green pigments from CATHAY INDUSTRIES are a range of high-quality inorganic green pigments. They are produced to strict quality standard and offer reliable performance, including:

- outstanding light-fastness
- high opacity
- excellent chemical resistance
- exterior durability

Chrome Oxide Green pigments must not be confused with the potentially toxic "Chrome Green," which is a blend of chrome yellow and iron blue that CATHAY INDUSTRIES does not produce.



Umber

CATHAY offers raw and burnt umber pigments of uncompromising quality. These pigments have semi-transparent properties making them ideal for use in wood and furniture stains.

Raw Umber is excellent brown pigments and popular in the stain industry due to their semi-transparency. Though they are not heat stable, UR81 can be used to produce many warm gray tones. It is also used extensively by the colorant houses to darken a color without seriously affecting its chromaticity.

Burnt Umbers offer the best value in brown pigments. These materials are in high demand in the stain industry because of their semi-transparency. Burnt Umbers have a reddish undertone and exhibit good heat stability.

CATHAYCOAT™ MICRONIZED A GRADE

Colors Represent Mass Tone and Tint Tone (Reduction with TiO₂ 1:4)

IRON OXIDE RED

	RA11	RA12	RA13	RA14	RA14B
MASS TONE					
TINT TONE					
	RA15	RA15B	RA16	RA16B	RA18
MASS TONE					
TINT TONE					

IRON OXIDE YELLOW

	YA21E	YA22E	YA22B	YA23E	YA50E
MASS TONE					
TINT TONE					

IRON OXIDE BLACK

	BA30	BA31	BA33
MASS TONE			
TINT TONE			

Typical Physical Properties (Micronized A Grade)

Product Code	Pigment Index	Chemical Composition	Purity, % (as Fe ₂ O ₃)	Oil Absorption (g/100g)	Density (g/cm ³)	Sieve Residue on 325 mesh (%)	Water Soluble Salts (%)	pH	Moisture (%)	Hegman	Particle Shape	DE	Tinting Strength (%)
Test Method			BS1014	ISO 787-5	ISO 787-10	ISO 787-7	ISO 787-3	ISO 787-9	ISO 787-2	ASTM D1210	Electron Micrograph	ISO 7724-2	ISO 8781-1

IRON OXIDE RED

RA11	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA12	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA13	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA14	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA14B	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA15	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA15B	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA16	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA16B	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA18	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105

IRON OXIDE YELLOW

YA21E	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105
YA22E	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105
YA22B	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105
YA23E	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105
YA50E	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105

IRON OXIDE BLACK

BA30	PBk 11	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Cubic	≤1	95-105
BA31	PBk 11	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Cubic	≤1	95-105
BA33	PBk 11	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Cubic	≤1	95-105

The color chips represented here are as accurate as the printing process will allow, it may be slightly different from actual shades. This is for your reference ONLY. Please pay attention to the samples we send to you.

CATHAYCOAT™ Standard S Grade

Colors Represent Mass Tone and Tint Tone (Reduction with TiO₂ 1:4)

IRON OXIDE RED

	RS10	RS11	RS13	RS13B	RS14	RS16	RS18
MASS TONE							
TINT TONE							

IRON OXIDE YELLOW

	YS21	YS22E	YS22B	YS23
MASS TONE				
TINT TONE				

IRON OXIDE BROWN

	BRS80H	BRS82	BRS86	BRS88
MASS TONE				
TINT TONE				

IRON OXIDE BLACK

	BB30	BB33
MASS TONE		
TINT TONE		

IRON OXIDE ORANGE

	OS66	OS66
MASS TONE		
TINT TONE		

Typical Physical Properties (Standard S Grade)

Product Code	Pigment Index	Chemical Composition	Purity, % (as Fe ₂ O ₃)	Oil Absorption (g/100g)	Density (g/cm ³)	Sieve Residue on 325 mesh (%)	Water Soluble Salts (%)	pH	Moisture (%)	Hegman	Particle Shape	DE	Tinting Strength (%)
Test Method			BS1014	ISO 787-5	ISO 787-10	ISO 787-7	ISO 787-3	ISO 787-9	ISO 787-2	ASTM D1210	Electron Micrograph	ISO 7724-2	ISO 8781-1

IRON OXIDE RED

RS10	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.1	≤0.3	5-8	≤1	3.0+	Spherical	≤1	95-105
RS11	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.1	≤0.3	5-8	≤1	3.0+	Spherical	≤1	95-105
RS13	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.1	≤0.3	5-8	≤1	3.0+	Spherical	≤1	95-105
RS13B	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.1	≤0.3	5-8	≤1	3.0+	Spherical	≤1	95-105
RS14	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.1	≤0.3	5-8	≤1	3.0+	Spherical	≤1	95-105
RS16	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.1	≤0.3	5-8	≤1	3.0+	Spherical	≤1	95-105
RS18	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.1	≤0.3	5-8	≤1	3.0+	Spherical	≤1	95-105

IRON OXIDE YELLOW

YS21	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.1	≤0.3	5-8	≤1	3.0+	Acicular	≤1	95-105
YS22E	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.1	≤0.3	5-8	≤1	3.0+	Acicular	≤1	95-105
YS22B	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.1	≤0.3	5-8	≤1	3.0+	Acicular	≤1	95-105
YS23	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.1	≤0.3	5-8	≤1	3.0+	Acicular	≤1	95-105

IRON OXIDE BROWN

BRS80H	Mixture	Mixture	88+	20-35	4.1-4.9	≤0.25	≤0.3	5-8	≤1	---	Irregular	≤1	95-105
BRS82	Mixture	Mixture	88+	20-35	4.1-4.9	≤0.25	≤0.3	5-8	≤1	---	Irregular	≤1	95-105
BRS86	Mixture	Mixture	88+	20-35	4.1-4.9	≤0.25	≤0.3	5-8	≤1	---	Irregular	≤1	95-105
BRS88	Mixture	Mixture	88+	20-35	4.1-4.9	≤0.25	≤0.3	5-8	≤1	---	Irregular	≤1	95-105

IRON OXIDE BLACK

BB30	PBk 11	Fe ₃ O ₄	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	---	Cubic	≤1	95-105
BB33	PBk 11	Fe ₃ O ₄	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	---	Cubic	≤1	95-105

IRON OXIDE ORANGE

OS66	Mixture	Mixture	86+	20-35	4.1-4.9	≤0.25	≤0.3	5-8	≤1	---	Irregular	≤1	95-105
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LOW VISCOSITY IRON OXIDE YELLOW

Colors Represent Mass Tone and Tint Tone (Reduction with TiO₂ 1:4)

LOW VISCOSITY IRON OXIDE YELLOW---PREMIUM

	YA21LV	YA22LV	YA23LV
MASS TONE			
TINT TONE			

LOW VISCOSITY IRON OXIDE YELLOW---MARKET STANDARD

	YA21ELV	YA22ELV
MASS TONE		
TINT TONE		

CATHAY INDUSTRIES, CATHAYCOAT™ LV Grades providing unique advantages, and sets the standard for the highest quality Yellow Iron Oxides.

Cathay's ability to lead the industry in the manufacturing of technologically superior iron oxide pigments, and with our unique range of Low Viscosity (LV) Yellow grades we continue to set new market standards.

- **Extra Low Viscosity (LV)** – our unique technology enables the manufacture of our LV Yellow Iron Oxides with extremely low oil absorption.
- **LV Grades** – Provide excellent fluidity with high pigment loading. Higher pigment loading especially in WB processes is providing additional advantages to the market
- **Easy to Disperse** – allows the use of High Speed Dispersers saving time and energy
- **Intense Color Strength** – our LV grades ensure an optimal and sustainable dosing and color development resulting in continued improvement in color strength and stability.

Cathay Industries LV Yellows are manufactured using a unique technologically advanced process, ensuring consistent and sustainable results for both indoor and outdoor applications.

Typical Physical Properties (Low Viscosity Iron Oxide Yellow)

Product Code	Pigment Index	Chemical Composition	Purity, % (as Fe ₂ O ₃)	Oil Absorption (g/100g)	Density (g/cm ³)	Sieve Residue on 325 mesh (%)	Water Soluble Salts (%)	pH	Moisture (%)	Hegman	Particle Shape	DE	Tinting Strength (%)
Test Method			BS1014	ISO 787-5	ISO 787-10	ISO 787-7	ISO 787-3	ISO 787-9	ISO 787-2	ASTM D1210	Electron Micrograph	ISO7724-2	ISO 8781-1

LOW VISCOSITY IRON OXIDE YELLOW

YA21LV	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105
YA22LV	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105
YA23LV	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105
YA21ELV	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105
YA22ELV	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	4.1	≤0.01	≤0.3	5-8	≤1	6.0+	Acicular	≤1	95-105

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C AND PRIMER GRADES

Colors Represent Mass Tone and Tint Tone (Reduction with TiO_2 1:4)

C GRADE

IRON OXIDE RED

	RC11	RC13	RC13-4	RC14	RC16	RC18
MASS TONE						
TINT TONE						

IRON OXIDE YELLOW

	YC22B	YC23B	YC23
MASS TONE			
TINT TONE			

IRON OXIDE ORANGE

	OC66
MASS TONE	
TINT TONE	

IRON OXIDE BROWN

	BRC86	BRC88
MASS TONE		
TINT TONE		

PRIMER GRADE

IRON OXIDE RED

	PR112	PR222	PR225	PR180	PR801	PR802
MASS TONE						
TINT TONE						

Typical Physical Properties (C and Primer Grades)

Product Code	Pigment Index	Chemical Composition	Purity, % (as Fe ₂ O ₃)	Oil Absorption (g/100g)	Density (g/cm ³)	Sieve Residue on 325 mesh (%)	Water Soluble Salts (%)	pH	Moisture (%)	Hegman	Particle Shape	DE	Tinting Strength (%)
Test Method			BS1014	ISO 787-5	ISO 787-10	ISO 787-7	ISO 787-3	ISO 787-9	ISO 787-2	ASTM D1210	Electron Micrograph	ISO7724-2	ISO 8781-1

C GRADE

IRON OXIDE RED

RC11	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.25	≤0.3	5-8	≤1	---	Spherical	≤1	95-105
RC13	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.25	≤0.3	5-8	≤1	---	Spherical	≤1	95-105
RC13-4	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.25	≤0.3	5-8	≤1	---	Spherical	≤1	95-105
RC14	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.25	≤0.3	5-8	≤1	---	Spherical	≤1	95-105
RC16	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.25	≤0.3	5-8	≤1	---	Spherical	≤1	95-105
RC18	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.25	≤0.3	5-8	≤1	---	Spherical	≤1	95-105

IRON OXIDE YELLOW

YC22B	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	5.0	≤0.25	≤0.3	5-8	≤1	---	Acicular	≤1	95-105
YC23B	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	5.0	≤0.25	≤0.3	5-8	≤1	---	Acicular	≤1	95-105
YC23	PY 42	Fe ₂ O ₃ •H ₂ O	86+	28-40	5.0	≤0.25	≤0.3	5-8	≤1	---	Acicular	≤1	95-105

IRON OXIDE ORANGE

OC66	Mixture	Mixture	86+	20-35	4.1-4.9	≤0.25	≤0.5	5-8	≤1	---	Irregular	≤1	95-105
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IRON OXIDE BROWN

BRC86	Mixture	Mixture	88+	20-35	4.1-4.9	≤0.25	≤0.5	5-8	≤1	---	Irregular	≤1	95-105
BRC88	Mixture	Mixture	88+	20-35	4.1-4.9	≤0.25	≤0.5	5-8	≤1	---	Irregular	≤1	95-105

PRIMER GRADE

IRON OXIDE RED

PR112	PR 101	Fe ₂ O ₃	70+	15-25	5.0	≤0.01	≤0.6	5-8	≤1	6.0+	Spherical	≤1	95-105
PR222	PR 101	Fe ₂ O ₃	70+	15-25	5.0	≤0.1	≤0.6	5-8	≤1	3.0+	Spherical	≤1	95-105
PR225	PR 101	Fe ₂ O ₃	60+	15-25	5.0	≤0.1	≤0.6	5-8	≤1	3.0+	Spherical	≤1	95-105
PR180	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.25	≤0.4	4-8	≤1	---	Spherical	≤1	95-105
PR801	PR 101	Fe ₂ O ₃	70+	15-25	5.0	≤0.1	≤0.6	5-8	≤1	6.0+	Spherical	≤2.5	90-100
PR802	PR 101	Fe ₂ O ₃	70+	15-25	5.0	≤0.1	≤0.6	5-8	≤1	6.0+	Spherical	≤2.5	90-100

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CATHAYCOAT™ SPECIALTY PIGMENT

Colors Represent Mass Tone and Tint Tone (Reduction with TiO₂ 1:4)

ZINC FERRITE

ZF15

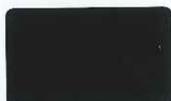
MASS
TONETINT
TONE

ZF25



MANGANESE FERRITE

F9900M

MASS
TONETINT
TONE

CHROME OXIDE GREEN

GA74

MASS
TONETINT
TONE

GA76



GA78



GA74M



GA76M



GA78M



Typical Physical Properties (Specialty Pigment)

Product Code	Pigment Index	Chemical Composition	Purity, % (as Fe ₂ O ₃ or Cr ₂ O ₃)	Oil Absorption (g/100g)	Density (g/cm ³)	Sieve Residue on 325 mesh (%)	Water Soluble Salts (%)	pH	Moisture (%)	Hegman	Particle Shape	DE	Tinting Strength (%)
Test Method			BS1014	ISO 787-5	ISO 787-10	ISO 787-7	ISO 787-3	ISO 787-9	ISO 787-2	ASTM D1210	Electron Micrograph	ISO 7724-2	ISO 8781-1

ZINC FERRITE

ZF15	PY 119	ZnO • Fe ₂ O ₃	65+	15-25	5.0	≤0.1	≤0.5	5-8	≤1	2.0+	Spherical	≤1	95-105
ZF25	PY 119	ZnO • Fe ₂ O ₃	65+	15-25	5.0	≤0.1	≤0.5	5-8	≤1	2.0+	Spherical	≤1	95-105

MANGANESE FERRITE

F9900M	PBk 33	(Fe,Mn) ₂ O ₃	65+	15-25	5.0	≤0.1	≤0.4	5-8	≤1	6.0+	Spherical	≤1	95-105
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CHROME OXIDE GREEN

GA74	PG 17	Cr ₂ O ₃	98.5+	15-25	5.2	≤0.1	≤0.3	5-8	≤1	---	Spherical	≤1	95-105
GA76	PG 17	Cr ₂ O ₃	98.5+	15-25	5.2	≤0.1	≤0.3	5-8	≤1	---	Spherical	≤1	95-105
GA78	PG 17	Cr ₂ O ₃	98.5+	15-25	5.2	≤0.1	≤0.3	5-8	≤1	---	Spherical	≤1	95-105
GA74M	PG 17	Cr ₂ O ₃	98.5+	15-25	5.2	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
GA76M	PG 17	Cr ₂ O ₃	98.5+	15-25	5.2	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
GA78M	PG 17	Cr ₂ O ₃	98.5+	15-25	5.2	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105

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HIGH CHROMA RED

Colors Represent Mass Tone and Tint Tone (Reduction with TiO_2 1:4)

IRON OXIDE RED

	RA11A	RA11AB	RA12A	RA13A
MASS TONE				
TINT TONE				
	RA11YD	RA11YC	RA12YD	RA13YD
MASS TONE				
TINT TONE				

CATHAY INDUSTRIES, High Chroma Reds, broaden the color space of red iron oxide pigments.

Cathay's ability to lead the industry in the manufacturing of technologically superior iron oxide pigments, has enabled us to introduce a new range of High Chroma Reds, providing brighter color development, with excellent hydrophilic properties, low oil absorption and low viscosity providing elevated gloss.

- **Easy to disperse** – our unique technology and hydrophilic properties allow our High Chroma reds to be dispersed with ease in both water based (WB) and VOC free systems.
- **Intense Color Strength and Gloss** – compared to iron oxides with pastel to medium shades, our new High Chroma Reds ensure intense color strength and gloss.

Cathay Industries High Chroma Reds are manufactured using a unique technologically advanced process, allowing higher color strength, superior hydrophilic properties, whilst maintaining a softer crystal strength and wider pigment surface allowing a simplified dispersing process using High Speed Dispersers (HSD), increasing production capacity, saving energy and reducing cost.

With low oil absorption and low viscosity properties, our new High Chroma Reds are ideal for all paint systems.

Typical Physical Properties (High Chroma Red)

Product Code	Pigment Index	Chemical Composition	Purity, % (as Fe ₂ O ₃)	Oil Absorption (g/100g)	Density (g/cm ³)	Sieve Residue on 325 mesh (%)	Water Soluble Salts (%)	pH	Moisture (%)	Hegman	Particle Shape	DE	Tinting Strength (%)
Test Method			BS1014	ISO 787-5	ISO 787-10	ISO 787-7	ISO 787-3	ISO 787-9	ISO 787-2	ASTM D1210	Electron Micrograph	ISO 7724-2	ISO 8781-1

IRON OXIDE RED

RA11A	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA11AB	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA12A	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA13A	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA11YD	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA11YC	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA12YD	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105
RA13YD	PR 101	Fe ₂ O ₃	95+	15-25	5.0	≤0.01	≤0.3	5-8	≤1	6.0+	Spherical	≤1	95-105

The color chips represented here are as accurate as the printing process will allow, it may be slightly different from actual shades. This is for your reference ONLY. Please pay attention to the samples we send to you.