



COLOR PERFECTION

HIGH PURITY IRON OXIDE PIGMENTS



CATHAYPURE™ IRON OXIDE PIGMENTS



CATHAYPURE™ Iron Oxides are synthetic high purity pigments developed to comply with and exceed the requirements of FDA and E172 regulations for cosmetics, food, pharmaceutical and other sensitive applications.

CATHAYPURE™ "Z" grade iron oxides are produced by a unique manufacturing process assuring the lowest level of heavy metal contents. It is a perfect selection for the cosmetic and pharmaceutical industries which choose the highest purity to far exceed all governmental requirements throughout the world.

CATHAYPURE™ "E" grade iron oxides are recommended for the use in pet food and food contact applications. "E" grades conform to the requirements of EC food legislation (E172) as well as American FDA regulations (title 21 section 73).

Heavy Metal Specification (ppm)		As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	Ba
E172		≤ 3	≤ 1	≤ 100	≤ 50	≤ 10	≤ 1	≤ 200	≤ 100	
FDA		≤ 3				≤ 10	≤ 1			
CATHAYPURE™ "E" series		≤ 3	≤ 1	≤ 100	≤ 50	≤ 10	≤ 1	≤ 200	≤ 100	≤ 50
CATHAYPURE™ "Z" series		≤ 1	≤ 1	≤ 25	≤ 10	≤ 3	≤ 0.5	≤ 10	≤ 35	≤ 5

Color	"E" series	"Z" series	Formula	%Fe	Shape	Particle Size(μ)		Specific Surface Area m²/g	Oil Absorption g/100g	pH
						Length	Width			
YELLOW	Y2220	Y5102	FeOOH	60+	Acicular	0.42	0.07	14.5	42	6.5
	Y2230	Y5108	FeOOH	60+	Acicular	0.7	0.17	11.5	42	6.5
	Y5100		FeOOH	60+	Acicular	0.51	0.04	65	70	5.5
	Y2630		FeOOH	60+	Acicular	0.51	0.04	65	70	5.5
RED	R2130	R5210	Fe ₂ O ₃	68+	Spheroidal	0.07		13	20	6.5
	R2135	R5215	Fe ₂ O ₃	68+	Spheroidal	0.09		11	20	6.5
	R2160	R5213	Fe ₂ O ₃	68+	Spheroidal	0.14		7.5	19	6.5
	R2190	R5214	Fe ₂ O ₃	68+	Spheroidal	0.19		4.5	19	6.5
BLACK	B1105E	B1105	Fe ₃ O ₄	68+	Cubic	0.22		5.25	21	7
	B2310	B1155	Fe ₃ O ₄	68+	Cubic	0.2		6.5	22	6.5
	B1106E	B1106	Fe ₃ O ₄	68+	Cubic	0.19		7	21	6.5
	B2320	B1166	Fe ₃ O ₄	68+	Cubic	0.18		8	22	6.5
	B1134		Fe ₃ O ₄	68+	Cubic	0.19		6.75	21	7
	B1138		Fe ₃ O ₄	68+	Cubic	0.18		8.5	20	6.5
	B1139		Fe ₃ O ₄	68+	Cubic	0.18		7.5	21	6.5
BROWN	BPR2870		I.O.Blend	68+	Blend	0.15		8.75	21	6.5
ORANGE	OP2660		I.O.Blend	62+	Blend	0.51		12	35	6.5

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Colors represent masstone and 20% tint colors



"E" series	"Z" series	Masstone	Tint
Y2220	Y5102		
Y2230	Y5108		
Y5100			
Y2630			
R2130	R5210		
R2135	R5215		
R2160	R5213		
R2190	R5214		
OP2660			

"E" series	"Z" series	Masstone	Tint
B1105E	B1105		
B2310	B1155		
B1106E	B1106		
B2320	B1166		
B1134			
B1138			
B1139			
BRP2870			



• Offices • Production Sites

Cathay Industries Asia Pacific Ltd.
Hong Kong Head Office

Suite 901A, 9/F, Chinachem Golden Plaza,
77 Mody Road, Tsimshatsui East,
Kowloon, Hong Kong
Tel: +852 2721 2257
Fax: +852 2721 6614
Email: info@cathayindustriesAP.com

Shanghai Office

15F, Yan Dang Building, No. 107, Yan
Dang Road, Shanghai, China
Tel: +86 21 63723345
Fax: +86 21 63725297
Email: info@cathaypigments.cn

Cathay Industries USA, Inc.
Indiana Head Office

4901 Evans Ave, Valparaiso, IN 46383,
USA
Tel: +1 219-464-7395
Fax: +1 219-465-7059
Email: info@cathayindusa.com

Cathay Industries Europe N.V.

Industriepark II, Pamelstraat Oost
442, 9400 Ninove, Belgium
Tel: +32 (0) 54/31 14 10
Fax: +32 (0) 54/31 14 19
Email: info@cathayindustries.eu

Cathay Industries (UK) Ltd.

Vine House, Walnut Tree Place, Send,
Surrey GU23 7HL, United Kingdom
Tel: +44 1483 222000
Fax: +44 1483 222008
Email: info@cathayindustries.co.uk

Cathay Baupigmente GmbH

Geseker Str. 31 – 33, 33154 Salzkotten, Germany
Tel: +49 5258 991515
Fax: +49 5258 991510
Email: info@cathaybaupigmente.de

Cathay Industries Australasia
Pty Ltd.

Sydney Head Office
103 Vanessa Street, Kingsgrove NSW
2208 Australia
PO Box 428, Kingsgrove NSW 1480
Tel: +61 2 9336 1000
Fax: +61 2 9150 6677
Email: info@cathayindustries.com.au

Cathay Industries (Africa) Pty.
Ltd.

Unit 3 Jet Park, Caravelle Street,
Walmer, Port Elizabeth, 6070, South
Africa
Tel: +27 41 5815206
Fax: +27 41 5816878
Email: info@cathayindustries.co.za