

Under
Development

Iron oxide pigment

Iron Oxide Pigment for Cosmetics [BC, RC, YC Series]



OVERVIEW

The BC, RC, and YC series are iron oxides for cosmetics based on our color pigment “TODA COLOR”. The heavy metal content is reduced to a level for cosmetics. You can use them safely and securely since they comply with the European food additive regulation on iron oxides and iron hydroxides (E-172).

FEATURES

High purity

We can stably supply high purity products by controlling their heavy metal content.

High coloring power

Due to their high coloring power and weather resistance, color phase does not change for a long time.

High dispersibility

Customer's target color can be obtained evenly in a short time since they are used with low oil absorption.

CHARACTERISTICS

【Color swatches of BC, RC, and YC series】

Brand	Mass tone	Tint tone ^{※1}	Chemical formula	INCI Name ^{※2}
BC-335	[Black swatch]	[Dark blue swatch]	Fe ₃ O ₄	Iron oxides (CI77499)
BC-340				
RC-110	[Red swatch]	[Red swatch]	α-Fe ₂ O ₃	Iron oxides (CI77491)
RC-120				
YC-15	[Yellow swatch]	[Yellow swatch]	α-FeOOH	Iron oxides (CI77492)
YC-20				

※1 Tint color: 3:1 ratio of titanium oxide to iron oxide (weight ratio)

※2 INCI Name: Names based on “International Nomenclature of Cosmetic Ingredients”

【Characteristic value of BC, RC, and YC series】

Item		BC series	RC series	YC series	E-172 upper limit
Heavy metal content [ppm]	Cr	≤10	59	≤10	≤100
	Ni	65	89	24	≤200
	Cu	≤10	≤10	≤10	≤50
	Zn	20	12	11	≤100
	As	≤3	≤3	≤3	≤3
	Cd	≤1	≤1	≤1	≤1
	Pb	≤5	≤5	≤5	≤10
Hg	≤1	≤1	≤1	≤1	
Oil absorption [ml/100g]		22	15	29	

<These color swatches may be different from the color of actual products.>

APPLICATIONS

- Cosmetic pigments
- Food packaging pigments

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