

Under
Development



Iron oxide pigment

Iron Oxides Pigments for Cosmetics [BC, RC, YC Series]

FEATURES

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).

CHARACTERISTICS

- 1 High purity**
We can stably supply high purity products by controlling their heavy metal content.
- 2 High coloring power**
Due to their high coloring power and weather resistance, color phase does not change for a long time.
- 3 High dispersibility**
Customer's target color can be obtained evenly in a short time since they are used with low oil absorption.

SPECIFICATIONS

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

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

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

Property projects		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	

※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"

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

APPLICATIONS

- Cosmetic pigments
- Food packaging pigments

