

Applications of Natural Colours in Europe



Applications	Hue	Colour	Concentration	Form
ANNATTO				
Cheese, Snack Food, Breakfast Cereal, Baked Goods	Yellow to Orange	Annatto or E 160b	2.5% Norbixin	Liquid
Snack Food, Margarine, Frosting			4.0% Bixin	Liquid
	Yellow	Annatto/Curcumin or E 160b / E 100	3.5% Bixin 2.5% Curcumin	Liquid
CURCUMIN (TURMERIC)				
Pickled Condiments, Ice Cream, Snack Food, Pet Food	Green Yellow	Curcumin or E 100	5.0% Curcumin	Liquid
Snack Food, Seasoning			10.0% Curcumin	Liquid
CAROTENE (NON-SYNTHETIC)				
Beverages, Dairy, Desserts, Baked Goods, Confectionery, Savoury	Yellow to Orange	Natural Carotene or E 160a	1.0% Beta-carotene	Liquid
			2.0% Beta-carotene	Liquid
			1.0% Beta-carotene	Powder
LUTEIN				
Beverages, Dairy, Nutraceuticals	Yellow	Lutein or E 161b	0.5 % Lutein	Liquid
PAPRIKA OLEORESIN				
Seasonings, Sauces, Snack Food, Meat, Frosting, Baked Goods, Salad Dressing	Red Orange	Paprika Extract or E 160c	100,000 CU	Liquid
Sauces			40,000 CU	Liquid

Custom blends are also available from Cork, Ireland.

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BETALAIN				
Dairy, Confectionery, Savoury, Dry Mix	Red Purple to Red	Beetroot Red or E 162	0.3% Betanin	Powder
ANTHOCYANINS				
Dairy, Beverages, Confectionery, Dry Mix	Red at pH 3.5	Anthocyanins or E 163 (Black/Purple Carrot)	4.0% Anthocyanin ¹	Powder
Beverages, Confectionery, Dry Mix	Purple Red at pH 3.5	Anthocyanins or E 163 (Grapeskin)	3.7% Anthocyanin ¹	Powder
Frosting, Confectionery	Blue at pH 5.5	Anthocyanins or E 163 (colorMaker™ Blue)	2.6% Anthocyanin ¹	Liquid
Confectionery, Dry Mix			0.9% Anthocyanin ¹	Powder
CARMINE AND COCHINEAL EXTRACT				
Dairy, Baked Goods, Confectionery, Savoury, Meat	Red Pink	Carmine or E 120	4.5% Carminic acid	Liquid
High Fat Applications, Baked Goods, Dairy, Confectionery, Savoury	Red		12.0% Carminic acid	Liquid
Acidic Beverages, Confectionery	Purple Red	Cochineal or E 120	2.0% Carminic acid	Liquid
	Orange		8.0% Carminic acid	Liquid
Dry Mix, Spice Blends	Red Pink	Carmine or E 120	50.0% Carminic acid	Powder
CHLOROPHYLL				
Beverages, Dairy, Confectionery	Green	Copper Chlorophyllin or E 141	9.5% NaCu Chlorophyllin	Liquid

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Method

¹ European Commission Directive 2008/128/EC of December 2008.