

# APPLICATIONS - CARMINE, ANNATTO & COLOR-BLENDS

Product Type	Product Description	Concentration %	Color Shade	Stability		Solubility	
				pH	Heat	Dispersible:	Soluble in:
<b>Sausage / Hamburger / Ham / Spice blend</b>							
Carmine HSC-Y, HSC, HSC-B	Carmine WS powder	20 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Carmine NF range	Carmine lake powder	50 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	Oil / Fat	Alkali
Carmine RY, RB	Carmine high tinctorial powder	27 - 60	Bright red bluish to strawberry red	3.5 - 8.0	Excellent	Oil / Fat	Alkali
Biocolor range	Carmine liquid	1 - 20	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Paprika Oleoresin	Paprika oleoresin	40,000 - 120,000 C.U.	Orange to dark red	3.0 - 8.0	Good	----	Oil
Biocon ANCA range	Carmine & annatto liquid blend	Formulations	Orange - Bright strawberry red	4.0 - 13.0	Good	----	Water
<b>Casing</b>							
Carmine HSC-Y, HSC, HSC-B	Carmine WS powder	20 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Carmine OS	Carmine oil suspension	5 - 10	Reddish	3.5 - 8.0	Excellent	Oil / Fat	----
Biobixin	Annatto - Norbixin liquid	1 - 5	Yellow to orange to brownish	5.0 - 12.0	Good	----	Water
Bixin - Biobixin emulsion range	Annatto - Bixin - Norbixin emulsion	1 - 3.5	Yellow to orange brownish	3.0 - 8.0	Good	Oil / Fat	Water
ANCA range	Carmine & annatto emulsion	Formulations	Red brownish	5.0 - 12.0	Good	Oil / Fat	----
<b>Breadcrumb</b>							
Biobixin	Annatto - Norbixin liquid	1 - 5	Yellow to brownish orange	5.0 - 12.0	Good	----	Water
Bixin emulsion range	Annatto - Bixin emulsion	4 - 8	Orange reddish	3.0 - 8.0	Good	Water	----
Paprika oleoresin	Paprika oleoresin	40,000 - 120,000 C.U.	Orange	3.0 - 8.0	Good	----	Oil
Turmeric TWM	Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Excellent	Oil / Fat	Water
<b>Surimi</b>							
Carmine NF 200 range	Carmine low bleeding powder	50 - 52	Pink - Bright red	3.5 - 8.0	Excellent	----	Alkali
Color RP	Carmine low bleeding liquid	Formulations	Pink - Bright red	3.5 - 8.0	Excellent	Water	----
Capra RLY, RLB range	Carmine and paprika low bleeding liquid	Formulations	Pink - Bright red	3.5 - 8.0	Good	Water	----
Paprika oleoresin	Paprika oleoresin	40,000 - 120,000 C.U.	Orange	3.0 - 8.0	Good	----	Oil
<b>Shrimp / Salmon</b>							
Biobixin	Annatto - Norbixin liquid	1 - 5	Yellow to orange to brownish	5.0 - 12.0	Good	----	Water
ANCA range	Carmine & annatto liquid blend	Formulations	Orange - Red	5.0 - 12.0	Good	----	Water
<b>Yoghurt / Milk drink / Custard / Ice cream</b>							
Biocolor range	Carmine WS liquid	1 - 20	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Carmine acid stable - APC-RAZ, RAM, PCN	Carmine acid stable liquid	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Norbixin - ENC	Annatto WS powder	5 - 15	Yellow - Orange	4.0 - 13.0	Good	----	Water
Biobixin	Annatto WS liquid	1 - 5	Yellow	4.0 - 13.0	Good	----	Water
ANCA range	Carmine & annatto liquid blend	Formulations	Peach - Yellow/orange	4.0 - 13.0	Good	----	Water
Turmeric TWM	Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Excellent	Oil / Fat	Water
<b>Cheese / Processed cheese / Coating</b>							
Biobixin	Annatto WS liquid	1 - 5	Yellow	4.0 - 13.0	Good	----	Water
AOS range	Annatto oil suspension	2 - 10	Yellow - Orange	3.0 - 8.0	Good	Oil / Fat	----

MEAT & FISH

DAIRY

Product Type	Product Description	Concentration %	Color Shade	Stability		Solubility	
				pH	Heat	Dispersible:	Soluble in:
<b>Oil / Salad dressing / Mayonnaise</b>							
Bixin emulsion range	Annatto - Bixin emulsion	4 - 8	Yellow - Orange opaque	3.0 - 8.0	Good	Oil / Fat	Oil / Water
BOS range	Annatto oil soluble	0.2 - 0.45	Yellow	3.0 - 8.0	Good	Fat	Oil
ATOS range	Annatto & turmeric oil suspension	Formulations	Yellow	3.0 - 8.0	Good	Oil / Fat	----
<b>Margarine / Spread / Shortening</b>							
AOS range	Annatto oil suspension	2 - 10	Yellow - Orange	3.0 - 8.0	Good	Oil / Fat	----
Turmeric TWM	Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Excellent	Oil / Fat	Water
ATOS range	Annatto & turmeric oil suspension	Formulations	Light yellow	3.0 - 8.0	Good	Oil / Fat	----
<b>Extruded &amp; pellet snack / Cheese snack</b>							
Carmine NF range	Carmine lake powder	50 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Biobixin	Annatto WS liquid	1 - 5	Yellow - Orange	3.5 - 8.0	Excellent	Oil / Fat	Alkali
AOS range	Annatto oil suspension	2 - 10	Yellow - Orange	3.5 - 8.0	Excellent	Oil / Fat	Alkali
<b>Seasoning</b>							
Carmine HSC-Y, HSC, HSC-B	Carmine WS powder	20 - 60	Red bluish to pink to strawberry red	3.5 - 13.0	Excellent	----	Water
Carmine NF range	Carmine lake powder	50 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Alkali
AOS range	Annatto oil suspension	2 - 10	Yellow - Orange	3.0 - 8.0	Good	Oil / Fat	----
Paprika oleoresin	Paprika oleoresin	40,000 - 120,000 C.U.	Orange	3.0 - 8.0	Good	----	Oil
<b>Hard &amp; soft candy / Coating</b>							
Carmine HSC-Y, HSC, HSC-B	Carmine WS powder	20 - 60	Pink - Strawberry red	3.5 - 13.0	Excellent	----	Water
Carmine acid stable - APC-RAZ, RAM, PCN	Carmine acid stable liquid	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Biocolor range	Carmine WS liquid	1 - 20	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Biobixin	Annatto WS liquid	1 - 5	Yellow - Orange	4.0 - 13.0	Good	----	Water
ANCA range	Carmine & annatto liquid blend	Formulations	Peach - Orange	4.0 - 13.0	Good	----	Water
Turmeric TWM	Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Good	Fat	Water
<b>Chocolate</b>							
Carmine OS	Carmine oil suspension	5 - 10	Pink - Strawberry red	3.0 - 8.0	Good	Fat	----
Carmine - NF 400 range	Carmine lake fine powder	50 - 52	Purple	3.5 - 8.0	Good	Fat	-----
Turmeric TWM	Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Good	Fat	Water
<b>Cream / Fruit filling / Pudding / Cake powder</b>							
Carmine HSC-Y, HSC, HSC-B	Carmine WS powder	20 - 60	Pink - Strawberry red	3.5 - 13.0	Excellent	----	Water
Carmine acid stable - APC-RAZ, RAM, PCN	Carmine acid stable liquid	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Biocolor range	Carmine WS liquid	1 - 20	Red bluish to pink to strawberry red	3.5 - 9.0	Excellent	----	Water
Biobixin	Annatto WS liquid	1 - 5	Yellow - Orange	4.0 - 13.0	Good	----	Water
ANCA range	Carmine & annatto liquid blend	Formulations	Peach - Orange	4.0 - 13.0	Good	----	Water
Norbixin - ENC	Annatto WS powder	5 - 15	Yellow - Orange	4.0 - 13.0	Good	----	Water

OIL & FAT

SNACK & SAVORY

CONFECTIONERY

BAKERY & PASTRY

Product Type	Product Description	Concentration %	Color Shade	Stability		Solubility	
				pH	Heat	Dispersible:	Soluble in:
<b>Alcoholic beverage / Soft drink / Energy drink / Fruit drink / Syrup / Fruit preparation</b>							
Carminic acid	Crystallized and spray dried powder	90 - 95	Orange	3.0 - 8.0	Excellent	----	Water
Carmine acid stable - APC-RAZ, RAM	Carmine acid stable powder	50 - 90	Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Carmine acid stable - APC-RAZ, RAM, PCN	Carmine acid stable liquid	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Biocolor range	Carmine WS liquid	1 - 20	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Bixin - Biobixin emulsion range	Annatto - Bixin - Norbixin emulsion	1 - 3.5	Yellow to orange brownish	3.0 - 8.0	Good	Water	Water
<b>Blush / Lipstick / Eye liner / Nail polish / Tablet coating</b>							
Carmine - NF 400 range	Carmine lake fine powder	50 - 52	Purple	3.5 - 9.0	Excellent	Fat	Alkali
Carmine RYX, RBX	Carmine high tinctorial fine powder	50 - 54	Bright red bluish to strawberry red	3.5 - 9.0	Excellent	Oil / Fat	Alkali
<b>Carmine concentrates for color and flavor formulations</b>							
Carminic acid	Crystallized and spray dried powder	90 - 95	Orange	3.0 - 8.0	Excellent	----	Water
Carmine acid stable - APC-RAZ, RAM	Carmine acid stable powder	50 - 90	Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Carmine acid stable - APC-RAZ, RAM, PCN	Carmine acid stable liquid	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Carmine HSC-Y, HSC, HSC-B	Carmine WS powder	20 - 60	Pink - Strawberry red	3.5 - 8.0	Excellent	----	Water
Carmine NF range	Carmine lake powder	50 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	Oil / Fat	Alkali
Carmine - NF 400 range	Carmine lake powder	50 - 52	Purple	3.5 - 8.0	Excellent	----	Alkali
Carmine RY, RB	Carmine high tinctorial powder	27 - 60	Bright red bluish to strawberry red	3.5 - 8.0	Excellent	Oil / Fat	Alkali
Carmine STV	Carmine low bleeding formulation	3 - 10	Pink - Bright red	3.5 - 8.0	Excellent	Water	----
<b>Annatto concentrates for color and flavor formulations</b>							
Norbixin powder	Norbixin powder	35 - 45	Yellow - Orange	3.0 - 13.0	Good	----	Alkali
Bixin powder	Bixin powder	27 - 32	Yellow - Orange	3.0 - 13.0	Good	----	Alkali
AOS range	Annatto oil suspension	2 - 10	Yellow - Orange	3.0 - 8.0	Good	Fat	Oil
BOS range	Annatto oil soluble	0.2 - 0.45	Yellow - Orange	3.0 - 8.0	Good	----	Oil / Fat
Bixin - Biobixin emulsion range	Annatto - Bixin - Norbixin emulsion	3 - 8	Reddish orange	3.0 - 8.0	Good	Oil / Fat	Water

BEVERAGES

COSMETICS

CONCENTRATES FOR FORMULATIONS

