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GLOBAL PRESENCE

Offices in 22 Countries

Manufacturing Units in 14 Countries

Application Labs in 14 Countries

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OUR BRANDS

FOOD COLORS





















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NATRACOL

Keeping up with the global trends in the food industry towards natural, healthier ingredients, ROHA's Natracol range focuses on manufacturing natural colors from a variety of natural sources like fruits, vegetables, plants, flowers and algae. Being at the forefront of this transformation, we efficiently address the growing market demand to present a portfolio of natural colors that covers clients' requirements. The Natracol range comes with the promise of ROHA's more than four decades of expertise in customer service and quality, which are aligned with international standards.

NATRACOL PRODUCT RANGE

ANNATTO INS160b

SHADE

Annatto color ranges from yellow to orange. It is extracted from the bixa orellana L. shrub and its main pigments are Norbixin (water soluble) and Bixin (oil soluble). This color is highly stable to light and heat. Annatto precipitates at acidic pH but acid-proof versions are also available within the ROHA range.

ANTHOCYANIN INS163

SHADE



Anthocyanin can be found in over 300 varieties in red to blue colors. Being a rich source of polyphenols, they have a number of health benefits, too. Anthocyanins are natural pH indicators, changing from a strawberry red at pH 3 to a deeper blue-red as the pH increases. ROHA has a wide range of sources of Anthocyanin such as black carrots, elderberry, purple sweet potato, red radish and many more.

BEETROOT RED INS162

SHADE



Beetroot Red is obtained by concentrating and pasteurizing the extracted beetroot juice directly obtained from the root of the vegetable Beta vulgaris. Betanins are the group of pigments that are responsible for the red to pink shades of beet juice which are highly stable to light and pH. This water soluble pigment is utilised across multiple food applications from dairy to confectionery. Roha also has a specialised red beet product with high resistance to heat.



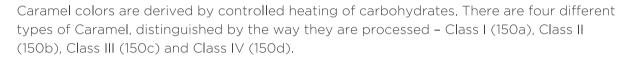
BETA-CAROTENES/CAROTENE INS160a

SHADE

Carotenoids are the primary source of yellow, orange and red colors of many fruit and vegetables. The variations of concentration, proportion and chemical structure of carotenoids influence its end application in various food products. ROHA can provide all types of beta-carotene from natural identical, to fungal and plant options. Paprika, lycopene, lutein, orange carrot and saffron contain different types of carotenoids that are used as natural food colors.

CARAMEL INS150a-d

SHADI



Class I (Plain) Caramel colors are produced using only caramelization reactions. Class II, III, and IV Caramel colors are obtained by caramelization and maillard browning reactions along with food grade nitrogen and/or sulfur, which contain ingredients that provide darker colors, as well as increase its stability. These colors have excellent heat, light and pH stability.

CANTHAXANTIN INS161g



SHADE

Canthaxanthin is a carotenoid that occurs naturally in some fishes (salmon and trout), fungi, crustacean and flamingo feathers. It demonstrates good stability to light, heat and pH.

VEGETABLE CARBON INS153

SHADE



CHLOROPHYLL AND CHLOROPHYLLIN/COPPER COMPLEXES INS140/INS141

SHADE



Chlorophyll (E140 (i)) is an oil-soluble green pigment found in leaves, grass, and vegetables capable of photosynthesis. It imparts an olive green color. The addition of copper, results in Copper Chlorophyll [E141 (i)], that is rendered water soluble to obtain Copper Chlorophyllin [E141(ii)], which provides a green-blue to green color. It has high stability towards light and heat. ROHA also offers acid-proof versions.

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COCHINEAL/CARMINE INS120

SHADE



Cochineal extract is a natural red dye, which is extracted from dried bodies of female insect Dactylopius coccus Costa. Carmine is obtained by aqueous extract of the cochineal extract. The main coloring pigment in both the colors is Carminic Acid. These products have excellent light and heat stability. Blending with yellow and orange colorants can create more shades of red.

CURCUMIN INS100

SHADE



Curcumin is obtained by solvent extraction of turmeric root i.e. ground rhizomes of Curcuma longa. L. Besides its excellent coloring characteristics, curcumin also displays anti-oxidant properties. Turmeric has a bright yellow to greenish yellow hue and is highly tolerant to heat and pH extremes.

IRON OXIDES INS172

SHADE



Iron Oxides are naturally occurring pigments, ranging from black, yellow, red and brown in color. They impart a pastel shade as opposed to some of the brighter and cleaner shades imparted by other colors. These pigments are excellent replacements for synthetic colors as they demonstrate high stability and consistent shades.

LUTEIN INS161b



Lutein is a yellow colored carotenoid, which is extracted from marigold flowers (Tagetes erecta). These flowers are grown abundantly throughout South America and Asia. This color demonstrates good stability to light, heat and pH. It is also consumed as a functional food due to its antioxidant properties. The range of yellow color offered by Natracol can be expanded by blending with other colors, such as green and red.

LYCOPENE INS160d

SHADE



Lycopene is a natural red food color that belongs to the carotenoid group. It is obtained from tomatoes by fermentation or synthesis, and is strongly associated with health benefits due to its antioxidant properties. It demonstrates good stability to light and heat. The typical applications for lycopene include milk beverages and shakes, bakery, meat analogues, soups, sauces, and nutraceuticals.



PAPRIKA OLEORESIN INS160c/PAPRIKA EXTRACT INS 160c(ii)

SHADE

Paprika, derived from dried ground fruit pods of Capsicum annuum, gets its color from capsanthin and capsorubin - the coloring pigments. Paprika oleoresin is obtained through flavoring and coloring principles combined by extraction upon using solvents that are eventually removed. Both, Paprika and Paprika Oleoresin are stable to heat and sensitive to light and pH conditions. They are water insoluble. ROHA offers an enhanced quality of Paprika with higher stability to light.

RIBOFLAVIN INS101

SHADE



Riboflavin, also known as Vitamin B2, can be used to fortify food. It is obtained from milk, cheese, green leafy vegetables, liver, yeast, almonds and mature soybeans, by fermentation or by synthesis. Exposure to light can destroy Riboflavin in natural sources and cause fading. It can be difficult to incorporate Riboflavin into many liquid products as it has poor solubility. As an alternative, E101a boflavin-5-Phosphate is a better soluble form of Riboflavin.

TITANIUM DIOXIDE INS171

SHADE

Titanium Dioxide is manufactured from Ilmenite and Rutile ores. It is a brilliant white pigment that can be applied to food, drugs and cosmetics. Titanium Dioxide pigments are inert and thus have excellent light, heat and pH stability. They are also used to add opacity to products. Its liquid form is easier to incorporate into products. ROHA offers a special formulation of Titanium Dioxide Dispersion that does not present sedimentation during storage of color.





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NATRACOL PRODUCT RANGE

COLOR*

3.0-7.0

2.5-8.0

2.0-7.0

3.0-7.0

3.0-8.0

2.5-9.0

2.5-8.0

3.0-8.0

3.0-7.0

GOOD

GOOD

GOOD

GOOD

POOR

GOOD

GOOD

GOOD

GOOD

EXCELLENT

EXCELLENT

pH STABLE | HEAT STABLE | LIGHT STABLE | FORMS AVAILABLE

GOOD

FAIR

GOOD

FAIR

POOR

GOOD

GOOD

GOOD

FAIR

EXCELLENT

EXCELLENT

PRODUCT NAME

TURMERIC OLEORESINS

NATRACOL LUTEIN

NATRACOL ANNATTO

NATRACOL PAPRIKA

NATRACOL BEETROOT

NATRACOL APO CAROTENE

NATRACOL CANTHAXANTHIN

NATRACOL CHLOROPHYLL/ COPPER

NATRACOL IRON OXIDE BROWN DISPERSION

NATRACOL CARMINE

CHLOROPHYLLIN

NATRACOL CARAMEL

NATRACOL CURCUMIN/ TURMERIC/

NATRACOL BETA CAROTENE/ CAROTENES

(

		& FRUIT DA		CHEESE & PROCESSED CHEESE	CHOCOLATE & COMPOUNDING COATINGS	GUMMIES & JELLIES TI		PANNED CANDIES Z	RY	CARBONATED SOFT DRINKS	STILL BEVERAGES	JUICE BASED BEVERAGES	DRINKS A S	FORTIFIED BEVERAGES TO S	POWDERED BEVERAGES		ERS, CAKES)	PAR % dnos	INGS	& CEREALS	PASTA & NOODLES O	VI.	ABLED)	MEAT A B A B A B A B A B A B A B A B A B A		DS		PE ⁻	DS	TABLETS	COMPRESSED TABLETS		LIQUID (SYRUPS, MOUTH BY WASHER, DISINFECTION)		OINTMENT - FAT CREAM	T - GEL
FORMS AVAILABLE	DAIRY BEVERAGES	YOGURT & FRUIT PREPARATIONS	ICE CREAM	CHEESE & PROCE	CHOCOL	GUMMIES	HARD CANDIES	PANNED	OTHER	CARBON	STILL BEY	JUICE BA	SPORTS DRINKS	FORTIFIE	POWDER	АГСОНОІ	BAKED G (COOKIE	SAUCES, SOUP & CONDIMENTS	DRY MIXE	& CEREAL	PASTA &	RAW MEAT	(NOT SHE	CANNED MEAT	ANALOGUE USE	SEA FOODS	CASINGS	DRY	WET	COATED TABLETS	COMPRE	CAPSULES	UIQUID (9	POWDER	OINTMEN	OINTMENT - GEL
WATER SOLUBLE LIQUID WATER SOLUBLE POWDER • OIL SOLUBLE LIQUID	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ						Υ		Υ	Υ	Υ	Υ	Υ		Y	Υ		Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ
WATER SOLUBLE LIQUID • WATER SOLUBLE POWDER OIL SOLUBLE LIQUID	Υ	Υ	Υ	Υ	Υ					Υ	Υ	Υ	Υ	Υ				Υ		Υ	Υ			Υ					Υ							
WATER SOLUBLE LIQUID • OIL SOLUBLE LIQUID ACID STABLE LIQUID • WATER SOLUBLE POWDER	Υ		Υ	Υ	Υ	Υ	Υ	Υ	Υ		Υ		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ		Υ	Y	Υ	Υ	Υ	Y		Υ	Υ		Υ	Υ		Υ	
WATER SOLUBLE LIQUID • WATER SOLUBLE POWDER OIL SOLUBLE LIQUID • EMULSIONS & CLEAR EMULSIONS	Y	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ		Υ	Υ	Υ	Υ	Υ		Y	Y	Y	Y		Y	Y	Y	Υ	Υ	Y	Υ	Y	Y
WATER SOLUBLE LIQUID • WATER SOLUBLE POWDER OIL SOLUBLE LIQUID • DEODORIZED PAPRIKA OLEORESIN PAPRIKA OLEORESIN THAT CONTAINS COLOR AND FLAVOUR	Υ															Υ		Υ	Υ	Υ		Υ	Y	Υ	Υ	Y	Y		Y							
• WATER SOLUBLE LIQUID • WATER SOLUBLE POWDER	Υ	Υ	Υ	Υ		Υ	Υ	Υ	Υ						Υ	Υ		Υ	Υ	Υ		Υ	Υ	Υ	Υ	Υ	Υ		Y	Υ	Υ	Υ		Υ		
WATER SOLUBLE LIQUID • WATER SOLUBLE POWDER OIL SOLUBLE LIQUID • EMULSIONS	Υ	Y	Υ	Υ	Υ	Υ	Υ		Υ	Υ	Υ	Υ	Υ	Υ	Υ		Υ	Υ		Υ	Υ			Υ	Y	Y		Y	Y							
WATER DISPERSIBLE POWDER WATER SOLUBLE LIQUID • OIL DISPERSIBLE LIQUID	Υ	Υ		Υ		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ			Υ		Υ	Υ	Y	Y	Y	Y	Y	Υ	Y	Y							
CARMINE • WATER SOLUBLE LIQUID • WATER SOLUBLE POWDER ACID CARMINIC • WATER SOLUBLE LIQUID • ACID STABLE LIQUID • WATER SOLUBLE POWDER • LAKE POWDER • LAKE DISPERSION	Y	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Y	Y	Y	Y	Y	Υ	Υ	Υ	Y	Υ	Y	Υ
WATER SOLUBLE LIQUID • ACID STABLE LIQUID WATER SOLUBLE POWDER • ACID STABLE POWDER OIL SOLUBLE LIQUID	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ			Υ	Υ	Υ	Υ	Υ	Υ	Υ			Υ	Y			Y	Y	Υ	Υ	Υ	Y	Y	Y	
• WATER SOLUBLE POWDER • WATER SOLUBLE LIQUID	Υ	Υ	Υ	Υ		Υ	Υ	Υ	Υ	Υ	Υ	Υ			Υ	Υ	Υ	Υ	Υ	Υ	Υ		Y	Υ	Υ	Υ	Y	Υ	Υ							





POWDER • WATER DISPERSIBLE SUSPENSION

OIL DISPERSIBLE SUSPENSION





*Color shades shown are only for indicative purposes. Customized blends are available as per client's specifications Please contact ROHA to check legislation for each country,

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NATRACOL PRODUCT RANGE							DAIRY		NFECT	IONEI	₹Y	В	EVERA	GES		PREP	EPARED FOODS			Μ	IEAT		PET FOOD			PHAR	MA		
NATRACOL	ROI		I KAI	NGE		IRY VERAGES	YOGURT & FRUIT PREPARATIONS	CREAM EESE ROCESSED CHEESE	CHOCOLATE & COMPOUNDING COATINGS	GUMMIES & JELLIES HARD CANDIES	PANNED CANDIES	OTHER CARBONATED SOFT DRINKS	STILL BEVERAGES	JUICE BASED BEVERAGES SPORTS DRINKS	FORTIFIED BEVERAGES	WDERED BEVERAGES COHOLIC BEVERAGES	BAKED GOODS (COOKIES, CRACKERS, CAKE SAUCES, SOUP &	CONDIMENTS DRY MIXES & SEASONINGS	EXTRUTED SNACKS & CEREALS PASTA & NOODLES	RAW MEAT	FULLY COOKED MEATS (NOT SHELF STABLED) CANNED MEAT	ANALOGUE USE	SEA FOODS CASINGS	> !	COATED TABLETS	MPRESSED TABLETS	CAPSULES LIQUID (SYRUPS, MOUTH	WDER/ GRANULAR ITMENT - FAT CREAM	ITMENT - GEL
PRODUCT NAME	COLOR*	pH STABLE	HEAT STABLE	LIGHT STABLE	FORMS AVAILABLE	DA	S E	의 물질	38	GU HA	PA	CA	STI	IDT S	<u>G</u> <u>S</u>	ALC A	SA CC BA	8 8	PA EX	RA	E S S	AN	SE,	DRY	8	8	S S		5 €
NATRACOL TITANIUM DIOXIDE		DISP	GOOD	GOOD	• POWDER • WATER DISPERSIBLE PASTE												,	′ Y	Y		Y	,		Y	,				
NATRACOL RIBOFLAVIN WSP		2.5-8.0	GOOD	POOR	• WATER SOLUBLE POWDER • WATER DISPERSIBLE LIQUID					Y		Y					,	′ Y	Y		Y	,		Y	,				
NATRACOL ANTHOCYANINS		2.0-7.0	GOOD	GOOD	• WATER SOLUBLE POWDER • WATER SOLUBLE LIQUID		Y	Y		Y	Y	Y	Υ	YY	Y	Y		Y	Y										
NATRACOL CARBON BLACK		3.0-8.0	EXCELLENT	EXCELLENT	• POWDER • WATER DISPERSIBLE PASTE			Y	Y	Y	Y	Y	Υ			Y	Υ ,	, Y	Y						Y		Y	Y	Y
INFUSIONS RANGE - The new and innovative na	tural color deli	very system fo	r fat matrix: perfe	ct dispersible, brig	htness and stability for an extensive range of solutions																								
NATRACOL INFUSION GREEN		3.0-7.0	FAIR	EXCELLENT	• LIQUID OIL SOLUBLE				Y								Y												
NATRACOL INFUSION MINT GREEN		3.0-7.0	FAIR	EXCELLENT	• LIQUID OIL SOLUBLE				Y								Y												
NATRACOL INFUSION LIME GREEN		3.0-7.0	FAIR	EXCELLENT	• LIQUID OIL SOLUBLE				Y								Y												
NATRACOL INFUSION RUBY RED		3.0-7.0	GOOD	EXCELLENT	• LIQUID OIL SOLUBLE												Y												
NATRACOL INFUSION CANDY RED		3.0-7.0	GOOD	EXCELLENT	• LIQUID OIL SOLUBLE												Y												
NATRACOL INFUSION YELLOW		3.0-7.0	GOOD	EXCELLENT	• LIQUID OIL SOLUBLE				Y								Υ ,	,	Y		Y	Y		\	,				



3.0-7.0

FAIR

EXCELLENT

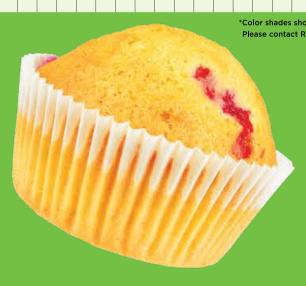
EXCELLENT

• LIQUID OIL SOLUBLE

• LIQUID OIL SOLUBLE

NATRACOL INFUSION TORTILLA BROWN











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CERTIFICATION

ROHA's food division has been certified by leading regulatory bodies like ISO, Kosher, Halal, FAMIQS, BRC, Food Safety, ISO 22000 & Organic Certification and Industrial dyes and pigments division is certified by EU REACH Registration.

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ROHA: INNOVATING WITH YOU. FOR YOU.



ROHA is a leading global manufacturer and distributor of synthetic, natural, clean label food colors, dried ingredients and industrial dyes and pigments. ROHA is a part of the JJT Group which is a force that positively transforms the lives around it.

Established in the year 1972 in Maharashtra, India, ROHA is constantly evolving to serve its clients by co-creating new and innovative solutions that anticipate future requirements and developments. At the core of such innovation are 14 manufacturing facilities and 14 application labs spread across the world. Headquartered in India, ROHA's international network extends to 22 countries having robust technology, logistics, regulatory, and manufacturing teams.

At ROHA we constantly look at innovations to better ourselves and keep up with the latest trends and technologies. We believe in **TEAM, INNOVATE, CREATE** and **REACH** philosophy that transforms the way we work, the way we see and use ingredients, and the value we will bring to clients.

TEAM - With an already amazing team at ROHA, we always try to synergise within and across the teams to develop a strong working environment.

INNOVATE - Innovation goes from colors to processes with the help of extensive new-age technologies in order to deliver the best value.

CREATE - With over 200 natural & synthetic colors, industrial hues and array of extracts and dried ingredients we constantly being raised in response to consumer demands to meet the competitive nature of the marketplace.

REACH - Our interactions do not end where geographical borders do. We have strategically placed offices on every continent to be able to serve you anywhere.





