

UMANG
innovative solutions



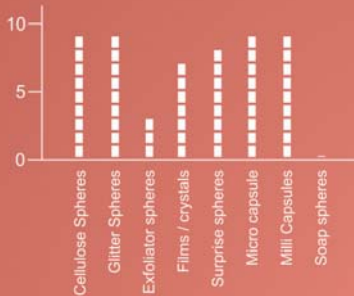
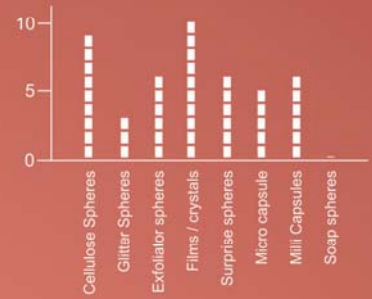
ENCAPSULATION

Solutions : Personal Care & Detergents

APPLICATIONS

ORAL CARE (TOOTHPASTE)

The encapsulation technology has major applications in oral care segment for cooling sensation spheres like Mint / Menthol spheres. Crystals / Films also have found a major application for Cooling / Whiteness strip applications in this segment. Various shapes like Heart / Star / Round / Leaves / Moon are possible for visual impacts with variety of application based actives. The chart besides shows the various technologies possible for this segment and usage of products in the above segment.

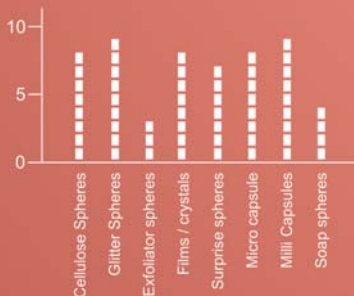
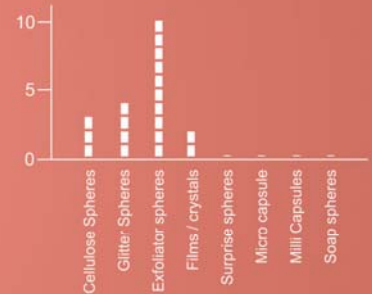


GELS, LOTION AND CREAMS

Various actives like Vitamins, oils, extracts & fragrances are encapsulated for creams and lotions to have various skin benefits like Vitamin A strengthens the protective tissue of skin and prevents acne. Vitamin A also acts as a powerful antioxidant improving wrinkling and fine lines. Vitamin B Complex helps to maintain a healthy skin tone and relieving stress. Vitamin C acts as a antioxidant to maintain your good looks & save your skin from sunburns. Vitamin E another antioxidant that improves softness and smoothness of skin. Actives mentioned are being encapsulated & used for above applications for visual & functional action of the product.

SCRUBS (EXFOLIATION)

Exfoliation spheres are designed for face scrubs and skin treatments where scrub removes away the surface layer of the skin termed as dead skin, instead of just cleaning off the dirt, it removes dead skin cells, unblocks the pores and stimulate cell turnover. The main purpose of the spheres is an abrasive action against the skin that removes the top layer of the skin and the accumulated dirt. Regular exfoliation may also reduce the appearance of lines and wrinkles. Rice, Apricot, Pomegranate and a complete range of various colored exfoliator spheres are available as standard products.

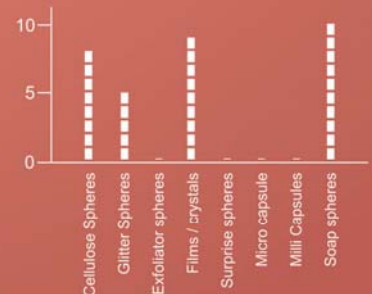


SHAMPOO AND HAND SANITIZER

Visual impact is a key in Shampoo and Sanitizers. The 3 best vitamins to be encapsulated for hair care is B-Complex, containing eight different vitamins B1, B2, B3, B5, B6, B9 & B12. A combination of these spheres in the shampoo helps hair growth. Vitamin C helps to hold the body tissue together avoiding hair breakage. Vitamin E helps in good blood circulation to the scalp and creates the perfect condition for healthy hair. Beta-carotene, Magnesium, Sulfur, Zinc & Flaxseed oil are other ingredients that can be encapsulated. Actives mentioned are being encapsulated & used for above applications.

SOAP AND DETERGENTS

One of the largest application of encapsulation is in liquid detergents, Liquid soap and soap bars. We provide various visual and performance based Films/ Spheres catering to diverse demands of the application in a highly competitive market where a visual difference can be more convincing to the marketing team and consumers. In general laundry detergent have actives like Enzymes, Fragrances, Bleach, Brighteners, Water softeners and many other agents can be encapsulated in the form of beads and films of various shapes & color like Heart, Star, Moon, etc. to give a strong visual impact to the end consumer.





PRODUCTS

CELLULOSE SPHERES

These spheres deliver un-paralled consistency and controlled Micro encapsulation of actives like Vitamins, Cooling agents, Oils, extracts, Actives, Fragrance, etc. and provide a smooth feeling on the skin leaving no residue. All products are upto 2 years of shelf-life in original form. We are one of the largest manufacturer of these beads in the world with more than 500,000 Kgs. of beads annually.

GLITTER SPHERES

These are cellulose based spheres with glitter effect giving the spheres a very high visual appeal due to the sparkling effect. We have all technologies Cellulose spheres, Exfoliation spheres, Films of various shapes, Surprise spheres, Micro capsules and Milli capsules available in glitter colors.

EXFOLIATION SPHERES

Unlike other facial scrubs which are abrasive and cause skin damage, our exfoliation spheres gently exfoliates and deep cleans your skin while protecting and moisturizing the skin at the same time. Our natural exfoliations naturally restore skin's beauty by working on the cellular level. These beads are also available for soap applications.

FILMS / CRYSTALS

This product range is a exciting range offering advanced visual shapes like Star, Hearts, Square films, Leaves, etc. Customizable projects will be developed under agreed conditions of MOQ and price. The formulation of the gel also needs to be known so that the Films / Crystals remain stable in the Gel / Solution.

SURPRISE SPHERES

These spheres are based on color on color applications. i.e. the sphere inner core which is the main color is hidden by a coating on top, eg. a green bead inside can be covered with a golden on the outside. (Green is the surprise color). We have made special applications with a brown inside and white color outside, making it blend with cream and on rubbing releases the surprise brown color on the skin.

MICROCAPSULE / MICRO SPHERES

Our encapsulation system available in several sizes and great collection of colors, that give a fantastic visual appeal to formulations at the same time it protects lipophilic actives. This technology allows to add actives directly into the formulation avoiding traditional techniques thus avoiding irritation problems. Various actives like Vitamins, Cooling agents, Oils, Extracts, Actives, Flavor, etc.

MILLICAPSULES

Our encapsulation system available in several sizes and great collection of colors, that give a fantastic visual appeal to formulations at the same time it protects lipophilic actives. This technology allows to add Vitamins like Vitamin E Acetate directly into the formulation. Various other vitamins can be added in this series for making soft version of agar spheres.

DETERGENT / SOAP SPHERES

Detergent films are loaded with fragrance and also are available in very attractive colors and shapes. Various shapes like Hearts, Stars, etc. can be blended with dry detergent powders giving it a very appealing look compared to speckles. Since the films are light in weight less quantity of film shapes are required for the same visual impact. Spheres for soap with actives like Papaya are also available for Soap application.

CI 77491

CI 77007

CI 77891

CI 77742

CI 77492

CI 77288

CI 15850:1

CI 77499

CI 15880:1

CI 11680



CI 77891 +
77019 + 77491

CI 77019 +
77891

CI 77007 +
77891 + 77019

CI 77288 +
77891 + 77019

CI 15850:1 +
77891 + 77019

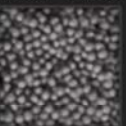
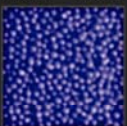
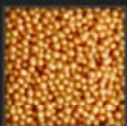
CI
Chromatique pink
+
77891 + 77019

CI 77742 +
77891 + 77019

CI 15880:1 +
77891 + 77019

CI 77499 +
77891 + 77019

CI 77288 /
11680 +
77891 + 77019



STANDARD PRODUCT LIST

SPRAYSPHERE®- C

CELLULOSE SPHERES INCI : Manitol, Cellulose, HPMC, Colorant, Vitamin E.	Product Code	Particle Size (microns)	CI Number	Active	Pantone Code
White Beads with mint oil	SC-M-77891-MB	1000 - 1500 (M)	77891	Mint oil	WHITE
White Beads with Clove oil & dimethicone	SC-M-77891-CDB	1000 - 1500 (M)	77891	Clove oil & dimethicone	WHITE
Lime Green Beads with tea tree oil	SC-M-77288-TTB	1000 - 1500 (M)	77288	Tea tree oil	347U
Blue Beads with vitamin E	SC-M-77007-VEB	1000 - 1500 (M)	77007	Vitamin E	2718U
Dark Red Beads	SC-VS-15850:1-B	300 - 500 (VS)	15850:1	-	1797U
Blue Beads	SC-S-77007-B	500 - 1000 (S)	77007	-	2718U
Yellow Beads	SC-M-77492-B	1000 - 1500 (M)	77492	-	131U
Dark Green Beads	SC-L-74260-B	1500 - 2000 (L)	74260	-	3298U
Blue Beads	SC-VS-77007-B	300 - 500 (VS)	77007	-	2718U
Red Beads	SC-M-12085-B	1000 - 1500 (M)	12085	-	166U
Lime Green Beads	SC-VS-77288-B	300 - 500 (VS)	77288	-	347U
Light Red Beads	SC-S-77491-B	500 - 1000 (S)	77491	-	1675U
Light Green Beads	SC-S-77289-B	500 - 1000 (S)	77289	-	3268U
Violet Beads	SC-S-77742-B	500 - 1000 (S)	77742	-	2572U
Mix Beads	SC-M-MIX-B	1000 - 1500 (M)	77288,77492,77742,12085,77007,77891	-	-

GLITTER SPHERES INCI : Manitol, Cellulose, HPMC, Colorant, Vitamin E.	Product Code	Particle Size (microns)	CI Number	Active	Pantone Code
Silver Beads	SG-VS-77019+77891-B	300 - 500 (VS)	77019+77891	-	SILVER
Golden Beads	SG-VS-77019+77891+77491-B	300 - 500 (VS)	77019 + 77891 + 77491	-	145U
Red Glitter Beads	SG-S-12085-B	500 - 1000 (S)	12085	-	166U
Blue Glitter Beads	SG-S-77007-B	500 - 1000 (S)	77007	-	2718U
Green Glitter Beads	SG-M-77288-B	1000 - 1500 (M)	77288	-	347U
Violet Glitter Beads	SG-M-77742-B	1000 - 1500 (M)	77742	-	2572U
Dark Green Glitter Beads	SG-L-74260-B	1500 - 2000 (L)	74260	-	3298U
Pink Glitter Beads	SG-M-PINK-B	1000 - 1500 (M)	NA	-	-

EXFOLIATORS SPHERES INCI : Cellulose, HPMC, Colorant, Vitamin E.	Product Code	Particle Size (microns)	CI Number	Active	Pantone Code
Rice Beads	SE-VS-RICE-B	300 - 500 (VS)	-	Rice	WHITE
Pomogranate Beads	SE-VS-POMOGANATE-B	300 - 500 (VS)	-	Pomogranate	7501U
Bamboo Beads	SE-VS-BAMBOO-B	300 - 500 (VS)	-	Bamboo	WHITE
Neem Beads	SE-VS-NEEM-B	300 - 500 (VS)	-	Neem	464U
Red Beads	SE-VS-15850:1-B	300 - 500 (VS)	15850:1	-	1797U
Blue Beads	SE-VS-77007-B	300 - 500 (VS)	77007	-	2719U
Yellow Beads	SE-VS-77492-B	300 - 500 (VS)	77492	-	131U
Green Beads	SE-VS-77288-B	300 - 500 (VS)	77288	-	347U
Silver Beads	SE-VS-77019+77891-B	300 - 500 (VS)	77019 + 77891	-	SILVER
Golden Beads	SE-VS-77019+77891+77491-B	300 - 500 (VS)	77019 + 77891 + 77491	-	145U

Disclaimer :

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

SPRAY FILMS / CRYSTALS

INCI : HPMC, Colorant, Vitamin E, PEG- 400.

	Product Code	Particle Size (microns)	CI Number	Active	Pantone Code
White Crystals	SF-77891-MF	-	77891	Mint oil	WHITE
Blue Crystals	SF-77007-F	-	77007	-	2718U
Green Crystals	SF-74260-F	-	74260	-	3298U
Red Crystals	SF-12085-F	-	12085	-	166U
Glitter Green Crystals	SF-77288-GLITTER-F	-	77288	-	347U
Glitter Blue Crystals	SF-77007-GLITTER-F	-	77007	-	2718U
Golden Crystals	SF-77019+77891+77491-F	-	77019 + 77891 + 77491	-	145U
Silver Crystals	SF-77019+77891-F	-	77019 + 77891	-	SILVER
Golden Heart Shape	SF-77019+77891+77491-HS	-	77019 + 77891 + 77491	-	145U
Golden Star Shape	SF-77019+77891+77491-SS	-	77019 + 77891 + 77491	-	145U

SURPRISE SPHERES

INCI : Manitol, Cellulose, HPMC, Colorant, Vitamin E.

	Product Code	Particle Size (microns)	CI Number	Active	Pantone Code
White - Red Beads	SS-VS-77891/77491-B	300 - 500 (VS)	77891 + 77491	-	2706U
Green - Blue Beads	SS-S-74260/77007-B	500 - 1000 (S)	74260 + 77007	-	335U
Blue - Green Beads	SS-M-77007/74260-B	1000 - 1500 (M)	77007 + 74260	-	2738U
Red - Blue Beads	SS-L-15850:1/77007-B	1500 - 2000 (L)	15850:1 + 77007	-	1807U

MICRO CAPSULES

INCI : Agar, Alginate, PEG - 400, Colorant.

	Product Code	Particle Size (microns)	CI Number	Active	Pantone Code
Micro Capsules with Vitamin C	SA-VS-77891-VC	300 - 500 (VS)	77891	Vitamin C	WHITE
Micro Capsules with Vitamin E	SA-S-77891-VE	500 - 1000 (S)	77891	Vitamin E	WHITE
Micro Capsules with Vitamin A	SA-M-77891-VA	1000 - 1500 (M)	77891	Vitamin A	WHITE
Micro Capsules with Papain	SA-L-77891-PAPAIN	1500 - 2000 (L)	-	Papain	WHITE
Golden Micro Capsules	SA-M-77019+77891+77491	1000 - 1500 (M)	77019+77891+77491	-	145U
Silver Micro Capsules	SA-L-77891+77019	1500 - 2000 (L)	77891+77019	-	SILVER

MILLI CAPSULES

INCI : Agar, Alginate, Glycerin, Colorant.

	Product Code	Particle Size (microns)	CI Number	Active	Pantone Code
Blue Milli Capsules with Vitamin E	SA-VS-77007-VE	300-500 (VS)	77007	Vitamin E	2718U
Red Milli Capsules with Vitamin E	SA-S-77491-VE	500-1000 (S)	77491	Vitamin E	1675U
Pearly White Milli Capsules with Vitamin E	SA-M-77891+77019-VE	1000-1500 (M)	77891 + 77019	Vitamin E	SILVER
Green Milli Capsules with Vitamin E	SA-L-77288-VE	1500 - 2000 (L)	77288	Vitamin E	347U

DETERGENT / SOAP SPHERES

INCI : Cellulose, Sucrose, HPMC, Glycerin, Colorant.

	Product Code	Particle Size (microns)	CI Number	Active	Pantone Code
Green Beads with Lime Fragrance	SD-M-77288-LFB	1000 - 1500 (M)	77288	Lime Fragrance	347U
Violet Beads with Lavender Fragrance	SD-S-77742-LFB	500 - 1000 (S)	77742	Lavender Fragrance	2572U
Red Heart Shape	SF-12085-HS	-	12085	-	166U
Golden Star Shape	SF-77019+77891+77491-SS	-	77019+77891+77491	-	145U

Remark to color variation :

In their original form, a color variation might be noticed from one Sprayspheres type to another, even if the same pigment is used (e.g. Ultramarine Blue in M size looks darker than in VS size or S size). This effect is due to the amount of water in certain raw materials used for the Sprayspheres. In the final application, the colors match and appear equal. Higher amounts of residual water might necessitate the preservation of some Sprayspheres.

Umang was incepted in the year 1982, with an objective to serve the clients with all kinds of equipments and accessories under one roof. Within a very short span of time, we succeeded to be the most reliable brand name in the market supplying equipments and solutions to the Pharmaceutical industry for Pelletization and granulation solutions.

In 2007, the company ventured into solutions for Personal care industry majorly focusing on Oral care products, giving encapsulated ingredients for cooling applications. In 2009, the company further integrated it self to give solutions for Bakery and food applications like Chewing gum, mouth dissolving films etc. Today the company has three major divisions : Personal care, Bakery and food ingredients, Pharmaceutical division for innovative dosage form development.

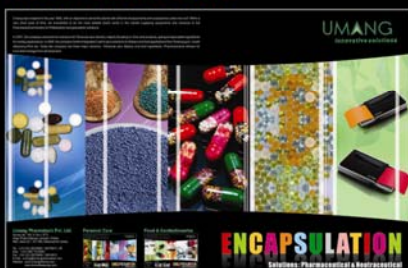


Umang Pharmatech Pvt. Ltd.

Survey No. 146, H. No.1 (PT),
Vasai Phata Highway Junction, Pelhar,
Nh8, Vasai (E) - 401 208, Maharashtra (India).

Tel. : (+91-22) 30018900 / 30018915 - 98
Mob. : (+91) 986 723 6594
Fax : (+91-22) 30018908 / 30018913
E-mail : umang@umangpharmatech.com
Website : www.umangpharma.com
www.innovativeencap.com

Pharmaceutical & Neutraceutical



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