

# SURPRISE SPHERES - SS (Color Changing Beads)

**INGREDIENTS:** Lactose, Cellulose, HPMC, PVA, Color (10-50%)

## Brief Description and Main Properties

Surprise Spheres are magic beads especially developed for the use in cosmetic products. Surprise Sphere SS can be used in various products for which a visual color change is required. The intensity of the color change can be adapted by adjusting the concentration of Surprise Spheres used. Surprise Spheres have been specially designed to blend in the cosmetic formulation and change color on application on skin.

## Solubility

Virtually partially soluble in water, insoluble in oils and all other common cosmetic vehicles.

## Dosage

1% to 2%

## Shelf Life

3 Years

## Application

- Soaps.
- Emulsions.
- Gels.
- Lotions.
- Creams.

## Encapsulation

Actives, Fragrance, Vitamins, Oils.

## Features

- Only approved synthetic & natural colors used.
- Color changing beads outer layer and inner layer have different colors
- Encapsulation 0-50% depending on actives.
- Easily applied into formulation.
- Both hydrophobic and hydrophilic cosmetic actives can be incorporated.
- Hard and solid in bulk (easy to process and delivery).

## Advantage

- Inclusion of actives & extract with enhancement visual benefits.
- Nourishes skin & hair.
- Disappears on gentle rubbing without leaving any residue on skin & hair upon application.
- It can be utilized as delivery system for encapsulation incompatible actives into same formulation.
- Adds surprise visual effect as it changes color.

## Benefits

- Changes Color on gentle rubbing. Available in various colors.
- Customizable as per Pantone shade card minimum(30kg). Customized options for encapsulation.
- Very less usage level up to - 2% depending on particle size.
- Encapsulation 0-50% depending on actives.
- 3-8pH stable except blue color(5-7pH).
- Composition has GRAs status.
- Biodegradable dry spherical beads.
- Beads are hard when dry but soften in contact with at least 20% of water.
- Flexible pack size & packaging available.

## PARTICLE SIZES

**XS = Extra Small = < 0.2 mm**

**VVS = Very Very Small = 0.2 - 0.3 mm**

**VS = Very Small = 0.3 - 0.6 mm**

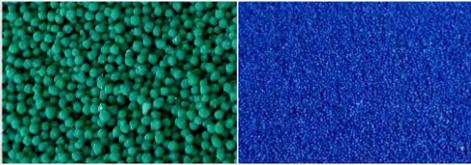
**S = Small = 0.6 - 0.8 mm**

**M = Medium = 0.8 - 1.4 mm**

**L = Large = 1.4 - 2.0 mm**

**XL = Extra Large = 2 - 5 mm**





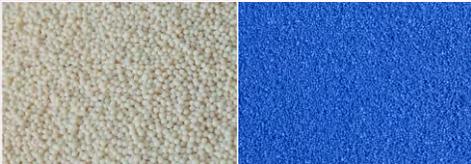
**SS-GR (BL)-3524-VS**



**SS-PI (CR)-3523-VS**



**SS-WH (BK)-3513-VS**



**SS-WH (BL)-3509-VS**



**SS-WH (GR)-3502-VS**



**SS-WH (RE)-3501-M**



**SS-WH (YE)-3503-VS**

\* Actual samples may vary slightly in color to that shown in the images above.