

## **FORMULATION OF BAMBOO EXFOLIATORS FOR FACE PACK**

**EXFOLIATORS:** Natural Exfoliating agents are used to remove dead cells from the surface of skin and improve blood circulation, giving renewed and glowing skin. It keeps face free from dirt, collected sebaceous secretions also improves the skin appearance Exfoliators removes dull flaky skin, evens skin tone and diminishes the look of fine lines to reveal radiance. Natural exfoliation spheres gently exfoliate and deep clean skin while protecting and nourishing it at the same. Umang Pharmatech manufactures Sprayspheres SE® beads containing natural products specially used for exfoliation.

### **EXFOLIATION BENEFITS:**

- Removal of dead skin cells
- Smoother, firmer skin
- Even-toned complexion
- Refined pores
- Reduces fine wrinkles, hyperpigmentation and scars
- Stimulates blood flow
- Allows for better absorption of moisturizers and serums.

### **BAMBOO :**

Bamboo is one of the agricultural crops which can be utilized for the design and development of polymer composites. Bamboo is rich in natural silica which improves skin health. It absorb essential minerals such as more than 75% silica ,calcium, potassium, iron, choline, magnesium and betaine. Bamboo is used in Indian Phytotherapy for its remineralizing properties.

### **INCI NAME :**

Bambusa Vulgaris Extract ( Bamboo Powder)

### **PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance** - Free Flowing White color spheres

**Solubility** - Practically insoluble in water

**Bulk Density** - NLT 0.6 gm/cc

**pH Value (1.0% Slurry)** - 5.0 to 8.0

**Loss on drying** - NMT 8.0%

### **KEY PROPERTIES OF BAMBOO EXFOLIATORS:**

- Does not disappear on gentle rub
- Preservative Free.
- Non GMO
- Provides Soft to mild Exfoliation
- Composition has GRAs status.
- Only approved synthetic & natural colors used
- Provide visual effects
- It is natural, non-toxic, non-comedogenic and non-allergenic properties and also biodegradable.
- Soft but effective abrasive,exfoliate naturally restore skin's beauty.



## EFFET OF BAMBOO EXFOLIATORS IN FACE PACK:



Bamboo Exfoliators is naturally antibacterial. It remove microbes and bacteria from the face. It is safe for the skin and much easier to keep clean. Bamboo is a natural therapy that reduces lines and aging signs on skin, and give glowing and healthy ski bamboo Exfoliators is also a natural skincare solution that contains antioxidant properties which can fight against free radicals that decreases the wrinkles.

**DOSAGE:** 0.5 % to 2% for visual effect and up to 10 % for colour or active delivery.

**STORAGE:** Temperature between 5 and 25° C.

### FORMULATION PROCEDURE:

**Pre-Mix 1:** Meter out water and start heating. Sprinkle in Carbopol and mix until all lumps are dispersed.

**Pre-Mix 2:** Dissolve preservative in propylene Glycol and add to Mix.

**Stage A:** Complete stage A by adding Magnesium sulphate to mix.

**Stage B:** Melt the oils and waxes of stage B and mix, bring to temperature.

With the Silverson running slowly add the hot oils to the hot Aqueous Phase, mix briefly then add the Triethanolamine which will thicken the product. Start cooling with mixing, before the product gets too thick add the Bamboo exfoliator and mix until dispersed, add the perfume and mix briefly.

(Silverson mixing after addition of Bamboo exfoliator should be avoided).

FORMULATION TIP	
FACE PACK	
Ingredients	Qty (wt %)
Pre-Mix 1 Water; Pure Carbopol 940	72.050 0.200
Pre-Mix 2 Propylene Glycol USP Preservative as required	6.000 0.300
Stage A: Magnesium Sulphate	0.100
Stage B: Light Mineral Oil GMS s/e Stearic Acid-Triple Pressed Almond Oil USP, Sweet Peach Kernel Oil	8.000 4.000 3.000 1.100 1.100
Stage C: Triethanolamine 99%	0.900
Stage D: Bamboo exfoliator	0.5-2
Cooling Cycle: Fragrance	0.250

### PARTICLE SIZES OF EXFOLIATOR BEADS

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

**KEY WORDS:** Exfoliator Beads, Scrub Beads, Natural Exfoliators, Cosmetic Beads for aesthetic effect, peel off, flake off, shed off, scrap, eliminate.