

## **FORMULATION OF WALNUT SHELL POWDER 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.

### **WALNUTSHELL POWDER :**

Walnut Shell is natural and biodegradable ingredients. Walnuts are rich in polyunsaturated fatty acids, protein, B-vitamins and minerals like magnesium, manganese and potassium. walnut shells contain lower amounts of the hygroscopic materials and higher amounts of the hydrophobic materials. The chemical composition of walnut shell fibers includes cellulose (23.9%), hemicellulose (22.4%), lignin (50.3%), and ash (3.4%).

### **INCI NAME:**

Walnut Shell Powder (Juglans regia)

### **PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** - Free Flowing granular powder

**Color** – Light brown to dark brown should match the standard

**pH Value (1.0% Slurry)** – Between 5 and 7

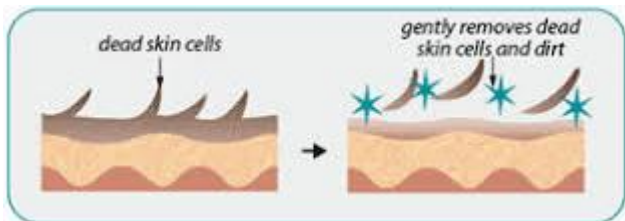
**Loss on drying ( 105 C)**- NMT 10 %w/w

**Ash Value**- NMT 10 %w/w

### **KEY PROPERTIES OF WALNUT SHELL POWDER 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 ,exfoliates naturally restore skin's beauty

**EFFECT OF WALNUT SHELL POWDER EXFOLIATORS IN FACE PACK:**



Walnut shell powder exfoliators removes skin impurities.it treat the skin problem like acne, ring worms and eczema. Walnut shell powder exfoliator increase the blood circulation and nourishing your skin. It helps retain moisture and prevents toxins from entering. It is act as antioxidant and reduces the scars also help to prevent the skin damage.

**DOSAGE:** 0.5 % to 2% for visual effect and up to 10 % for color 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 Walnut Shell Powder exfoliator

and mix until dispersed, add the perfume and mix briefly. (Silverson mixing after addition of Walnut shell powder 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: Walnut shell Powder 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.