

FORMULATION OF WALNUT SHELL POWDER EXFOLIATORS FOR BODY SCRUB



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

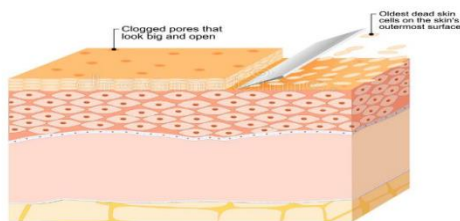
Loss on drying (105 C)- NMT 10 %w/w

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 BODY SCRUB:



Walnut Shell Powder exfoliator removes the dead cell from the surface of the skin. It is a natural skin care. 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 colour or active delivery

STORAGE: Temperature between 5 and 25° C

FORMULATION PROCEDURE:

Stage 1: Meter water of part A into appropriate vessel .Add EDTA and mix until dissolved .With moderate propeller agitation, add the carbomer and mix for 20 min.

Stage 2: Add ingredients of part B to part A with moderate propeller agitation.

Stage 3: Add Part C to Part AB in order listed with moderate propeller agitation .Mix 20-30 min with moderate agitation.

Stage 4: Add Part D to batch in order listed .Mix with moderate agitation for 20 min.

Stage 5: Adjust batch to pH 5.5 with Part E

Stage 6 : Walnut Shell Powder exfoliators are added at the end Of manufacturing at moderate temperature and at slow stirring.

Shearing or other mechanical stresses should be avoided during all manufacturing and filling process.

FORMULATION TIP

Ingredients	Qty (wt %)
Part A :	
1.Deionized Water/Diluent	51.45
2.Disodium EDTA/Chelating agent	0.05
3.Carbomer(1)/Thickener	1.00
Part B:	
1.Propylene Glycol/Humectant	1.00
2.Glycerin (96%)/Humectant	2.00
Part C:	
1.Sodium Laureth Sulfate (28-30%)/Surfactant	16.00
2.Disodium Dimethicone Copolyol Sulfosuccinate(30%)(2)/ Surfactant	15.00
3.Polysorbate-20/Emulsifier	1.00
4.Dimethicone (and) Laureth-4 (and) Laureth-Z3(SM2169)(3)/Conditioning	5.00
5.Cocamidopropyl Betaine/Surfactant	3.00
Part D:	
1.Polyquaternium-39(4)/Conditioning	3.00
2.DMDM Hydantoin (and) Iodopropynyl Butylcarbamate(5)/ Preservative	0.15
3. Fragrance(6)	0.25
Part E:	
1.Triethanolamine(99%) /pH adjustment	1.10
Walnut Shell Powder Exfoliators	0.5-2

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.