

FORMULATION OF SUGAR 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.

SUGAR :

Sugar is a building blocks of carbohydrates and it is naturally found in various food such as fruit, milk, vegetables and grain. Sugar is disaccharide, composed of two monosaccharide molecule that is glucose and fructose. Sugar is natural source of glycolic acid. It is a natural humectant.

INCI NAME :

Sucrose (sugar)

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Free flowing brown colored granules

Bulk density: NLT 0.6 gm/cc

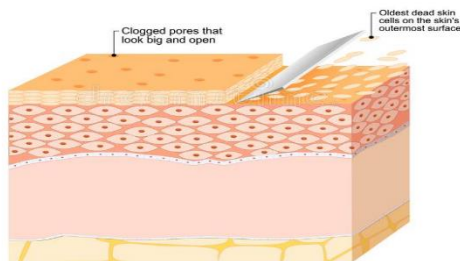
pH Value (1.0 % slurry) : 5.0 to 8.0

Loss on Drying: NMT 8.0 %

KEY PROPERTIES OF SUGAR 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 SUGAR EXFOLIATORS IN BODY SCRUB:



Sugar exfoliators make the skin smooth and healthy. It helps to fight skin aging in a natural way. Sugar contains minerals that protect the skin from the toxins. Sugar Exfoliator removes the dead skin cell from skin and makes it brighter. It also removes the dirt, impurities and excess oil from the skin.

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 : Sugar 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	
BODY SCRUB	
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
Sugar 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.