

## **FORMULATION OF COFFEE EXFOLIATOR FOR FOOT SCRUB**

**EXFOLIATORS:** Exfoliation is a natural process of healthy skin, where the body sheds dead skin cells, allowing brand-new, fresh skin to be revealed beneath.

Natural Exfoliating agents are used to remove dead cells present on the skin and boost blood circulation, giving renewed and glowing skin. It keeps skin free from dirt, grime, accumulated sebaceous secretions and oils which are also beneficial in keeping the skin pores clean.

Natural exfoliation spheres gently exfoliates and deep cleans the skin while protecting and nourishing it at the same time.

Umang Pharmatech manufactures **Sprayspheres SE®** beads contain natural products specially used for Exfoliation .

**KEY WORDS:** Exfoliate ,peel off ,flake off ,throw out, shed off ,scrap, eliminate ,rub,  
Exfoliators beads , Scrub beads , Natural Exfoliators ,Cosmetic beads for aesthetic effects .

### **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



### **COFFEE EXFOLIATOR :**

A scrub is active skincare – exfoliating helps to stimulate your body, your lymphatic system and get your circulation flowing. Coffee scrub exfoliator is a natural remedy that reduces lines and aging signs on skin, and get a glowing and healthy again. Coffee Scrub is a natural exfoliant

and effectively cleans, heals, moisturises and rejuvenates the skin.

### **INCI NAME:**

Coffea Arabica (Coffee) Seed Powder

### **PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** - Free Flowing brown 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 COFFEE 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.
- It is natural, non-toxic, non-comedogenic and non-allergenic properties and also biodegradable

## EFFECT OF COFFEE EXFOLIATOR IN FOOT SCRUB:



Coffee exfoliators may be very effective at cleansing the feet and smoothing and softening the skin. Coffee scrub exfoliators scrape away dead skin cells from the soles of the feet, and the stimulating effects of caffeine may help to increase blood flow and circulation in the area. The intense exfoliating action of Coffee scrub helps relieve swelling and pain with its anti-inflammatory properties and enhances the texture of the skin leaving the feet soft & smooth by removing callused & rough skin.

### FORMULATION PROCEDURE:

**Stage 1:** Disperse carbopol ETD 2020 and Ultrez 10 polymer in the deionized water, Continue stirring slowly to hydrate for about 20 min.

**Stage 2:** Partially neutralize the carbopol dispersion with TEA in Part A and mix until smooth.

**Stage 3:** Add part B to Part A with slow, sweep mixing to avoid foaming.

**Stage 4:** Pre-combine ingredients in part C and add part C to parts A/B. Mix slowly until homogeneous.

**Stage 5:** Add ingredients in part D to parts A/B/C, in order mixing thoroughly

between. Finish by adding remaining TEA to neutralize.

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

**STORAGE:** Temperature between 5° C -25° C

FORMULATION TIP	
FOOT SCRUB	
Ingredient	Qty (wt %)
<b>Part A</b>	
1. Deionized water	79.00
2. Carbomer/carbopol Ultrez 10	0.25
3. Acrylates / C10-30 Alkyl Acrylate crosspolymer/Carbopol ETD 2020	0.40
4. Triethanolamine (99%)	0.16
<b>Part B</b>	
1. TEA Lauryl sulfate (40%)/ standapol T	4.00
2. Propylene Glycol	2.50
<b>Part C</b>	
1. Glycerine	2.50
2. Coffee Exfoliator	0.5-2%
3. Propylene Glycol and water and Matricaria ( Chamomilla Recuita) Extract/Actiphyte of Chamomile	0.05
4. Propylene glycol and water and Ivy ( Hedera Helix) Extract /Actiphyte of Ivy	0.05
5. Polymethoxy Bicyclic Oxidilidine/Nuosept C	0.20
<b>Part D</b>	
1. Pumice	10.00
2. D&C No.33 (0.1%)	0.35
3. Triethanolamine(99%)	0.44

### 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