

FORMULATION OF OATS EXFOLIATORS 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. 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 effect.

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.



OATS EXFOLIATOR:

Oats Exfoliator soaks up the excess oil on your skin ,unclog the pores .Oats Exfoliator enriched with Amino acids and Vitamin B they boost blood circulation, fights pigmentation and fades dark spots.It has anti-inflammatory properties that absorb, remove oil and bacteria from skin. Oats Exfoliator helps in removal of the oldest dead skin cells on the skin's outermost surface,

and gives you a fresh, glowing and youthful skin.



INCI NAME:

Avena Sativa (Oat) Kernel Extract

PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Free flowing spheres ranging from light yellow to golden colour

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 OATS 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 OATS EXFOLIATORS IN FOOT SCRUB:



Oats exfoliators contain saponins, which are natural cleansers that are very effective at cleansing the feet and smoothing and softening the skin. Oats exfoliators scrape away dead skin cells from the soles of the feet, guards the skin against external pollutants, allergens and hydrates the skin from within.

The intense exfoliating action of Oats exfoliators 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 %)
Part A	
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
Part B	
1. TEA Lauryl sulfate (40%)/ standapol T	4.00
2. Propylene Glycol	2.50
Part C	
1. Glycerine	2.50
2. Oats 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
Part D	
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 - 5mm