

FORMULATION OF ENCAPSULATED ARGAN OIL ACTIFILMS FOR BATHBOMB



Actifilm™: Actifilms are films made up of Hydroxypropylmethyl cellulose which is a chemically modified cellulose polymer. The dissolving film delivery vehicle is just a thin flexible sheet of polymer in which an active ingredient has been incorporated. These actifilms magically disappear upon rubbing by delivering dry actives i.e they are visually dry but soften easily when it gets in contact with water, thus they have the amazing properties to soften in the formula making them more malleable and ready to disintegrate when pressure is applied. Umang Pharmatech manufactures **Actifilm™ i.e AF** exclusively available in shapes and varieties of colors available for personal care applications.

KEY PROPERTIES OF ACTIFILMS:

- Non GMO
- Paraben free
- Natural, non-toxic, non-comedogenic and non-allergenic properties
- Gentle and Effective on skin
- Rapid dispersion with excellent uniformity.
- Activates four product senses you can see, smell, taste & touch it and disappears on rubbing
- Nature friendly as soluble in water

ARGAN OIL



Argan oil is made from the kernels of argan trees. Argan Oil is rich with antioxidants, essential nutrients that strengthens and protects the skin and help improve skin elasticity with regular skin application. Argan oil has powerful combination to boost skin health. Argan oil packed with essential fatty acids and omega oils, these nourishing plant oils absorb quickly and help support the skin's natural moisture retention.

INCI NAME:

Argania Spinosa Kernel Oil

Different shapes /colours of Actifilms



Mix colour Star shape



Golden colour Cross Shape



Blue colour Tree shape

WHY ENCAPSULATED ARGAN OIL?

Encapsulation Technology is used in the development of cosmetic formulations that more stable, more effective and with improved sensory properties. Argan oil is encapsulated to prevent its aroma and natural moisturizing property. Besides imparting antioxidant and anti-inflammatory properties used extensively in treating psoriasis and rosacea.

EFFECT OF ENCAPSULATED ARGAN OIL IN BATHBOMB :



Bath bombs are single-use, spherical blends of smoothing, fragrant extracts and oils . Amazing scent therapy with effervescent bathbomb of delight creates an atmosphere of opulence and luxury that refreshes and relieves stress of the body .

The primary ingredients are sodium bicarbonate and citric acid, which interact with each other once dissolved in water to create that fizzing effect . Once this reaction occurs, the bath bomb dissolves and breaks apart, releasing all the good stuff inside: from delicious scents to delivering actives that gets dispersed into water to provide clear, soft, healthy and glowing skin .Encapsulated argan oil in

bath bombs easily penetrates the skin to boost moisture and activate the creation of natural lipids

Encapsulated argan oil is rich in vitamin E, which nourishes, renews, refreshes and resuscitates the skin and protect the skin barrier. Encapsulated Argan oil when used in cleansing body provides both antibacterial and fungicidal properties able to treat and prevent both bacterial and fungal skin infections.

FORMULATION PROCEDURE:

Step I: Dry mixing of Xanthan Gum and Citric acid .

Step II: Dry mixing of sodium bicarbonate and sodium starch glycolate.

Step III: Dry mixing of mannitol, cross caramellose sodium lauryl sulphate.

Step IV: PVPK-30,colour,purified water (solution preparation)

Step V:Addition of Step I , II , III is added to the mixture. Stirring under vaccum is resumed without further heating.

Step VI:Addition of Step IV into Step V followed by addition of fragrance .The fragrance added is mixed under vaccum at room temperature. Encapsulated Argan Oil actifilms are added at the end of manufacturing at moderate temperature and at slow stirring.

FORMULATION TIP	
BATHBOMB	
Ingredients	Qty (%)
Xanthan Gum	55.05
Citric acid	24
Sodium bicarbonate	30
PVPK30	2
Sodium Starch Glycolate	2
Mannitol	5
Cross caramellose	1
Fragrance :Rose	1
Color:Blue	1
Actifilms with Argan Oil	0.2
Purified water	Up to 100%

DOSAGE: 0. 2% for visual effect and up to 10 % for colour or active delivery

STORAGE: Temperature between 5° C - 25° C

KEY WORDS: Encapsulated films, fast dissolving films , films for special effects, HPMC films, dissolving films for bathbomb, water soluble films for decoration.