

# Commercial Bulletin

# Aloe Non-Woven



# Add value and functional benefits to your Non-woven products



## Aloe in non woven industry

The personal care and hygiene industries have seen a dramatic growth in the number of new and innovative nonwoven product applications.

The development of new properties and applications of nonwovens has been triggered by the changing marketplace. The constant search for convenience and instant solutions to the always “on-the-go” lifestyles, have generated many new business opportunities within the nonwovens industries.

When looking at all the benefits nonwovens can provide, it is easy to understand why products made of nonwovens become part of our daily lives and the material of choice for many end-uses and applications.

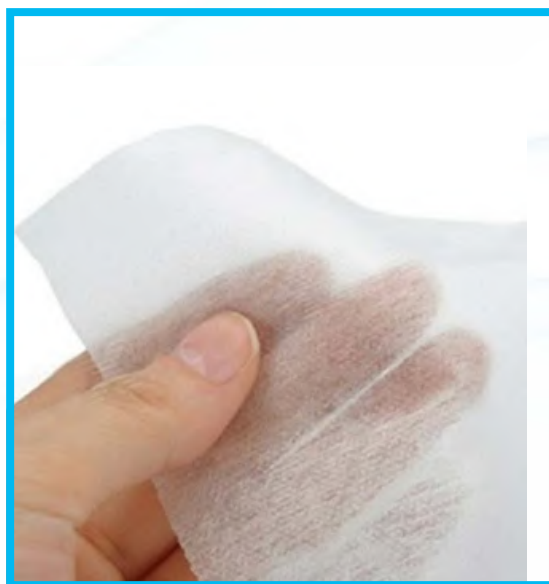
## Hygiene components

A wide range of hygiene products produced in the nonwoven industry is already using Aloe Vera in their formulations, like baby diapers, adult diapers and feminine hygiene pads, all of them provide softness.

Playing in Aloe Vera's favor is the fact that a substantial number of consumers all over the world have already come across this ingredient in skin care products.

A widespread association exists between Aloe Vera and personal care products

Add high value to your non-woven products applying botanical extracts as Aloe Vera, in that the latter are intended to deliver an active agent applied to the top sheet.





# Aloe Vera is one of the most famed skincare plants of all time



Add high value to your non-woven products applying containing botanical extracts as Aloe Vera , in that the latter are intended to deliver an active agent, applied to the upper layer in contact with skin

## Apply Aloe Vera in non-woven products

For Non-woven manufacturers it is very important to add value for marketing purposes, it also provides the ability to impart skin health benefits from natural sources as Aloe Vera.

For that reason **AMB Wellness** and its strategic partner **HNSI** supply Aloe Vera with great chemical properties as polysaccharide's and introduces **InnovAloe Aloe Vera powder 200X** which is intended to condition, hydrate and soothe the skin without irritation for repeated contact to the skin in order to better enhance the benefits to your personal care consumers.



## Application of Aloe Vera

### Adding an Aloe Vera lubricant solution to your surface enhancing agent

For personal care products containing a nonwoven component, having petrolatum-based lotions applied thereto has been filed. There continues to be a desire for a topical treatment for a nonwoven substrate that can prevent or reduce the occurrence of a number of common skin disorders associated with disposable personal care absorbent garments. There is also the need to maximize application transfer to the skin at minimum topical application add-on with demonstrable skin health benefits.

## Aloe conditions, hydrates and soothes skin without irritation



The most commonly used lubricant is petrolatum. Melting this and making a emulsion with Aloe Vera you have an improved method for applying an effective concentration of Aloe Vera to a disposable absorbent article. The Aloe Vera solution can be applied by a variety of processes. A particularly preferred process involves spraying the Aloe Vera solution onto the top surface of the inner layer of the diaper.

### Spraying the solution to the targeted areas



Aloe Vera can be applied continuously along the top surface of the inner layer or may be targeted to specific areas. It is particularly preferred to focus the higher concentrations of Aloe Vera in the areas of the diaper or other non-woven products that experience high pressure contact with the skin, such as the crotch area, the leg elastics and the leg cuffs, and lesser concentrations in the areas of the diaper corresponding to the waist areas and other areas that do not experience substantial contact and exposure to the

wearer.

The Aloe with surfactant may be applied by any conventional means, such as saturation, spraying, printing, roll transfer, slot coating, brush coating, or internal melt addition. The surfactant may be applied to the entire top sheet or may be selectively applied to particular sections of the top sheet, such as the medial section along the longitudinal centerline of the diaper, to provide greater wettability of such sections.

### Top sheet surface add-on lotions:

In order to create novelties product differentiation, several topical lotions are added to the nonwoven top sheet, among others: Aloe Vera, Vitamin E, Petrolatum, Almond Oil, Vitamin D, Oat Extract, Jojoba, etc. There is another trend to use antibacterial lotions (such as tertiary ammonia or silver salt compounds); this topical application must be spray to an adjacent surface.



## Aloe Vera is a natural and versatile ingredient to promote successful products



A composite includes a boundary layer and a topical application that can be applied to a substrate such as a nonwoven web, such that the topical application may be readily separated from the substrate and subsequently transferred.

### Bioactive Aloe Vera

AMB Wellness is interested to satisfy mature and young adults consumer's high expectations, who are better educated and informed looking for healthier ingredients which provide important benefits to health.

Today consumer's demand is not only by creating new and tasty food, regular beverages or products that have a protective rapid effect, today they are looking for products with healthy properties.



Conscious of this new lifestyle, AMB is dedicated to develop new natural ingredients which fulfill our unique customer's need.

We care for your health creating refined and pure extracts which synthesized some natural elements need by your body.

If you're looking for Aloe Vera cosmetic grade, you've come to the right place. AMB Wellness and HNSI offer a variety of fresh-pressed, organic InnovAloe gel juices in different concentrations. InnovAloe is an exclusive concentrate which maximize the Aloe Vera solids for a more therapeutic effect.

All the healing qualities of Aloe are also used in cosmetics. "Cutaneous" affinity of Aloe works well in all activities of cosmetics

**Improve your products with our Aloe Vera ingredients and add value and functional benefits to your non-woven products**

# Non-woven trends provide an ongoing innovation

## Bioactive constituents of Aloe Vera

Aloe Vera contains more than 75 substances that work together to support internal and external health, AMB Wellness takes great care to ensure the highest levels of these bioactive in all of ingredients.

### Aloe Treats Rash

Aloe Vera helps with rash through its powerful healing activity at the epithelial level of the skin, a layer of cells that cover the body. It acts as a protective layer on the skin and helps replenish its moisture. Because of its nutritional qualities and antioxidant properties, the skin heals quicker.

It acts as a moisturizer. Aloe moisturizes the skin without giving it a greasy feel, so it's perfect for anyone with skin complexion. Aloe Vera acts as a moisturizer and is great for the face prior to the application to prevent skin drying.

Aloe treats skin inflammation. It allows the skin to heal quickly and naturally with minimal scarring. The ability to add innumerable characteristics as botanical ingredients means that nonwovens are becoming more versatile and multipurpose.

#### Aloe in diapers



**Aloe Vera provides a wealth of advantages ranging from softness, elasticity and absorption**



# Aloe Vera provides softness, freshness and absorption



## Aloe in non woven applications

Packed with beneficial nutrients, Aloe is key for a variety of non woven applications. In fact, the soothing properties of Aloe are particularly helpful during the use of diaper or feminine hygiene pads. Fortunately, Aloe can avoid irritation and odor, thus decreasing the amount and length of time of discomfort. It should be applied generously to the top sheet of non woven article where has contact and friction with the product.

Aloe has compatibility with anionic, amphoteric, and nonionic surfactants and typical emollients or skin actives is excellent; InnovAloe is compatible with the most skin protection additives

- 1) Baby diapers
- 2) Femenine hygiene productos
- 3) Incontinence products for adults



# Apply Aloe Vera to all your daily baby care products



## Baby diapers

The primary contributors to the development of diaper rash have long been thought to be infant urine and feces. For example, infants under two months of age can urinate up to 20 times per day. Thereafter, infants can urinate up to 8 times a day. In addition, infant defecation typically occurs several times a day.

Create the gentlest formulation with Aloe Vera in baby diapers, Aloe Vera moisturizes and reduces the detrimental irritation and rash

Aloe Vera is a natural and versatile ingredient to promote successful products through natural products and materials

Diapered skin is normally cleansed several times a day utilize solutions containing surfactants decreasing the barrier function. Prevent or reduce irritation adding Aloe Vera with Vitamin E or formula with petrolatum or surfactants and oxide zinc

One of the main interest of Diapers manufacturers that want to improve the health of the baby's skin and to prevent diaper rash, is using Aloe Vera gel as a barrier and prevents sticking to affected area, feels smoother and fresh the baby's skin and comfortable, Aloe is gentle with the baby's tender skin



**Add functional value to your  
products with Aloe Vera**

Aloe Vera helps to prevent irritation, reducing the immediate skin reaction, relieving the discomfort and preventing secondary infection and other complications. However, merely keeping the area clean and dry does not protect the irritated skin from the chemical irritation associated with the by-products of infant urine and feces. Improve your Baby line of products with Aloe Vera extract

In response to the problems associated with diaper rash, add Aloe extract in the baby diaper gives an extra caring touch.



**Aloe Vera add soft texture and helps babies' skin to feel smooth**



### **Diaper rash lotion impregnated sheet**

Impregnate your diaper with a Aloe skin lotion. Aloe contributes to your formula with pH between 4.0 to 5.0 which helps to neutralize acidity of urine and fecal matter

One of the most common skin problems with infants relates to diaper rash, also known as diaper dermatitis. One study conducted with infants less than two years of age concluded that almost two-thirds of all infants suffer from diaper rash of some degree. Approximately 10% of all infants can have their diaper rash classified as being moderate, with another 5% of the infants having diaper rash which could be classified as severe.

**Add value for marketing purposes to your absorbent disposable products. Today the consumer are more aware of natural Ingredients in family products**

In response to the problems associated with diaper rash, Formulate your top sheet non woven application containing Aloe Vera and emollient to reduce irritation due to friction of the skin with diaper or feminine hygiene pads by movement during day, and improves skin softness, Aloe Vera provides the desired therapeutic benefits. Combine your innovative design, top absorbance levels with skin friendliness of Aloe Vera



You can add Aloe Vera lotion to all your baby product line: baby diapers, baby pants and change mats. All our baby products have been designed on the basis of on-going research on mothers' insights, study of the specialized needs of the sensitive baby's skin, as well as close monitoring of technological developments in the field of baby hygiene.

Baby pants with Aloe extracts uniquely combine effective protection, comfort and skin friendliness. Protects your baby customers during this stage of potty training.

# Apply Aloe Vera to the top sheet of feminine hygiene



## Feminine hygiene products

In the feminine hygiene category, products are becoming more and more technologically advanced with added cosmetic and convenience features to ease everyday use. New products are now more discreet or even invisible giving women a secure feeling and preventing any kind of leakage. The broad variation of products available includes everything from mini tampons and panty-liners to thin and thick sanitary pads, all products in which nonwovens play a major role in providing the desired properties and functions.

Changing lifestyles set the pace for new product development in this category, with recent trends including white or black panty-liners to match lingerie, full-size thick sanitary towels for the mature woman and fully absorbent string pads for the younger generation. Some products are perfumed or treated with Aloe Vera, either shaped or straight and sometimes with soft nonwoven wings for comfortable use.

Aloe Vera provides a wealth of advantages ranging from softness, elasticity and absorption for your feminine hygiene products; add value for this increasing market with this natural ingredient, bringing a differentiation concept in benefit of your line of absorbent garment for feminine care- sanitary napkins, pantyliners become a leader in the market adding natural extract into your products.

Convert Aloe Vera into a waterless lubricant solution, and apply the solution of Aloe Vera to areas in contact with skin.





# Convert Aloe Vera into a waterless lubricant solution



## Aloe Vera lubricant composition provides a protective layer

Aloe Vera reduces the detrimental irritation and rash often associated with prolonged exposure, particularly areas of discharge of menstruation leakage.

Be aware of the changing needs of the modern woman, creating a best respond to these needs, developing a range of feminine hygiene products with extra care product features, as Aloe Vera does for your products

- Alternative top sheet types, depending on the needs of different skin types.
- Acquisition layer that distributes moisture lengthwise, to keep the top sheet dry.
- Super absorbent core that ensures top dryness levels, and odorless
- For every day , impregnate also pantyliners with Aloe Vera to offer a clean feeling, together with unique skin properties



# Keep living confidently and increase the comfort adding Aloe Vera



## Incontinence products for adults

Another area which is rapidly growing in terms of nonwoven applications is the adult incontinence product category. Although nobody wants to accept age as a concern, age-related problems occur despite new and advanced methods to stay healthy. Adult incontinence is one of these issues. According to the WHO, more than 200 million people worldwide currently suffer from some kind of incontinence.



Incontinence means major lifestyle changes but the inconvenience it can cause has been substantially reduced by the latest in absorbent product design and nonwoven development, capturing and transferring the lessons learned from the baby diapers and feminine hygiene categories.

The general greying of the populations in the U.S., Europe, and Japan in particular, is now widely acknowledged. This recognition means that there will be an increasing need for new products to help manage the challenges of aging that senior's face. One of these is urinary incontinence. This condition constitutes a large and growing market opportunity that is completely technically different from those already addressed for young children.



**Aloe Vera has exceptional skin friendly properties, avoid irritation**



**Aloe Vera lubricant composition provides a protective layer between the skin and absorbent article, which reduces irritation caused by friction between the skin and high pressure areas of the diaper**

Aloe Vera provides a wealth of advantages ranging from softness for your incontinence portfolio, add value for this increasing market with this natural ingredient, bringing a differentiation concept in benefit of your underwear-like protective pants line and become a leader in the market

Aloe Vera reduces the detrimental irritation and rash often associated with prolonged exposure of the senior's body, particularly the genitals and buttocks to urine and other discharged liquids, or areas of the skin exposed to relatively high pressure areas of the adult diaper or under pads.

Aloe Vera has exceptional skin friendly properties, avoid irritation. Impregnate your adult diaper/pull up with a Aloe skin lotion, Aloe contributes to your formula with pH between 4.0 to 5.0 which helps to neutralizes acidic and basic byproducts of urine matter.

Aloe Vera can use in the full range of incontinence diaper and adult pull ups for adult care, ensure a sensitive care to the delicate skin of incontinence product users, combine effective protection with exceptional skin friendliness.

