



## Natura Natural Fiber Textiles Overview

Natura Natural fiber textiles are materials derived from natural sources such as plants and animals, offering sustainability, biodegradability, and versatility across various industries. Acme Mills' Natura brand exemplifies this by providing eco-friendly, nature-inspired fabrics tailored to meet diverse industrial needs.



## What Are Natural Fiber Textiles?

Natural fiber textiles are fabrics made from fibers obtained from natural sources, primarily categorized into:



### PLANT-BASED FIBERS

Derived from plants, including:

- ✓ **Cotton:** Soft, breathable, and widely used in clothing and home textiles.
- ✓ **Hemp:** Known for its strength and durability, suitable for various industrial applications.
- ✓ **Jute:** Coarse fiber used in products like sacks, ropes, and geotextiles.
- ✓ **Bamboo:** Sustainable fiber used in eco-friendly fabrics and wipes.



### ANIMAL-BASED FIBERS

Obtained from animals, such as:

- ✓ **Wool:** Provides excellent insulation, commonly used in apparel and upholstery.
- ✓ **Silk:** Valued for its softness and luster, used in luxury garments and furnishings.



## Common Applications of Natural Fiber Textiles

Natural fiber textiles are utilized in a wide range of applications due to their beneficial properties:

- ✓ **Clothing and Apparel:** Cotton, wool, and silk are extensively used in fashion for their comfort and aesthetic appeal.
- ✓ **Home Furnishings:** Materials like cotton and jute are used in curtains, upholstery, and carpets.
- ✓ **Industrial Products:** Hemp and jute fibers are employed in making ropes, sacks, and geotextiles.
- ✓ **Medical Supplies:** Natural fibers are used in products like bandages and surgical gowns due to their biocompatibility.

## Industries Utilizing Natural Fiber Textiles

Natural fiber textiles find applications across various industries, including:



### MEDICAL & PHARMACEUTICAL

- ⚙️ **Bandages and Dressings:** Utilize natural fibers for their absorbency and hypoallergenic properties.
- ⚙️ **Surgical Gowns and Masks:** Made from natural fibers to ensure breathability and comfort.



### MILITARY

- ⚙️ **Uniforms:** Natural fibers provide comfort and durability in various climates.
- ⚙️ **Camouflage Nets:** Use jute and other plant fibers for effective concealment.



### CONSTRUCTION

- ⚙️ **Geotextiles:** Jute and coir fibers are used in soil stabilization and erosion control.
- ⚙️ **Insulation Materials:** Wool and hemp fibers offer natural insulation properties.



### CHEMICAL INDUSTRY

- ⚙️ **Filtration Products:** Natural fiber textiles are used in filters for their chemical resistance and filtration efficiency.



## FOOD AND BEVERAGE

### **Packaging Materials:**

- ⚙️ Natural fibers are used in eco-friendly packaging solutions.

### **Beverage Filters:**

- ⚙️ Utilize natural fibers for effective filtration.



## AUTOMOTIVE

### **Seating and Upholstery:**

- ⚙️ Natural fibers like hemp and jute are used in seat covers and interior panels for their durability and sustainability.

### **Composite Materials:**

- ⚙️ Incorporate natural fibers to enhance strength and reduce weight.



## FURNITURE

### **Upholstery Fabrics:**

- ⚙️ Natural fibers provide comfort and aesthetic appeal in furniture design.

### **Mattress Fillings:**

- ⚙️ Use cotton and wool for their natural cushioning properties.

## Acme Mills' Natura Brand

Acme Mills' Natura brand focuses on providing sustainable, natural fiber textiles suitable for various applications:



### NATURA-VSX

Hydroentangled spunlace nonwoven made from 100% sustainable, biodegradable bamboo pulp fibers, ideal for eco-friendly wipes.



### FLUSHABLE WIPES

Designed to replace petroleum-based materials, offering biodegradable solutions for personal hygiene products.



### PLA SPUNBONDS

Polylactic acid-based spunbond fabrics derived from renewable resources, suitable for various industrial applications.



## **The Power of Natural Fibers: Performance & Sustainability**

By leveraging natural fiber textiles, industries can achieve performance requirements while promoting sustainability and environmental responsibility.

### **Press Release**

Acme Mills Company, a global leader in textile innovation, proudly introduces **Natura**, its groundbreaking line of bio-based polylactic acid (PLA) fabrics. Designed to replace petroleum-based nonwovens such as PET, PP, and Nylon, Natura represents a revolutionary step toward reducing environmental impact without compromising performance or quality.

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### **Contact Acme Mills**

Need assistance in maximizing manufacturing efficiencies to ensure quality and optimize costs? Call or email us today and one of our skilled team members will lead the way. (800) 521-8565 ~ [info@acmemills.com](mailto:info@acmemills.com)