

Woodpulp Spunlace Nonwoven



Part 1: Definition & Core Technology

Our woodpulp spunlace nonwoven fabric is a premium, cloth-like material engineered for demanding cleanliness and sensitive applications. It is manufactured through a high-pressure water jet process (spunlacing) that entangles wood pulp (cellulose) fibers with polyester fibers, creating a strong, uniform, and exceptionally soft fabric without the use of chemical binders.

The specific fiber blend is key to its balanced performance: The natural wood pulp (cellulose) component provides superior absorbency, softness, and a skin-friendly, environmentally considerate profile. The polyester component contributes essential strength, durability, and structural integrity, both in dry and wet states. Our expertise lies in precisely controlling this blend ratio and the spunlacing energy to produce a fabric with an ideal balance of gentleness and robustness, featuring a clean, low-linting surface critical for precision environments.

Part 2: Key Performance & Functional Advantages

1. **Exceptional Softness & Skin Comfort:** The spunlace process and natural cellulose fibers result in a fabric with a remarkably soft, textile-like handfeel. It is non-abrasive and ideal for direct contact with sensitive surfaces and skin.
2. **High Absorbency & Quick Dry:** The hydrophilic wood pulp fibers grant the material excellent liquid absorption capacity and rapid wicking, making it highly effective for cleaning and wiping tasks.
3. **Low Linting & High Cleanliness:** The mechanically entangled fiber structure minimizes fiber shedding (linting), ensuring it leaves no residue on sensitive components like electronics, optical lenses, or in sterile medical fields.
4. **Durable & Resilient:** Reinforced by polyester fibers, the fabric maintains good tensile and tear strength even when saturated, preventing rips and tears during use for reliable performance.
5. **Versatile & Customizable Foundation:** We offer a adaptable material platform to suit various needs:

Composition: Adjustable blend ratios (e. g. , 55/45 or 50/50 cellulose/polyester) to fine-tune absorbency versus strength.

Specifications: Available in basis weights from 45 to 120 gsm and widths from 20 to 320 cm.

Appearance: Standard colors include Medical Blue, White, and Green.

Part 3: Primary Applications

This versatile fabric serves as a critical component in both medical hygiene and industrial:

Medical & Healthcare: Base material for medical wipes, drapes, and packaging. After special anti-fluid or antimicrobial treatments, it is upgraded for use in surgical gowns and other medical protection products requiring a combination of comfort and barrier performance.

Precision Cleaning: Wipes and rolls for cleaning electronics, machinery, precision instruments, and optical surfaces where low linting and scratch-free performance are mandatory.

Industrial & Consumer Wiping: High-performance wipes for general industrial maintenance, laboratory use, and premium consumer cleaning products.

Part 4: Compliance & Responsible Manufacturing

Quality Assurance: Our production follows stringent control protocols to ensure consistent fabric weight, strength, and purity across all batches.

Sustainable Profile: The fabric incorporates renewable wood pulp fibers and is produced via a binder-free process with water as the primary bonding agent, supporting more environmentally conscious product design.

Part 5: Our Value as Your Solutions Partner

We provide more than just a nonwoven fabric; we deliver a foundation for high-performance wiping and medical textiles. By collaborating on fiber blend, weight, and finishing treatments, we help you develop products that meet exact requirements for softness, strength, absorbency, and cleanliness. Our technical support is dedicated to ensuring this material becomes a reliable and effective component in your application.