

### Pelbien Negative Silver Ion Textiles: Combining Health and Elegance



Due to their stain-resistant properties, Negative Silver Ion textiles enable contaminated products to be washed at 58°-60°C for 1 hour, instead of the standard 72°-90°C for 3-3.5 hours, as specified in laundry protocols. This reduces washing time to 1 hour, significantly saving electricity and water for hospitals.

By washing contaminated products at 58°-60°C with Negative Silver Ion textiles, the product's lifespan is extended, enabling hospitals to save 40-50% on annual textile purchases.







#### Features of Pelbien Negative Silver Ion Technology:

01. Antimicrobial

02. Odor Control

03. Anti-Edema

04. Stain Resistance

05. Electromagnetic Shielding

06. Thermal Effect

Pelbien fabrics manufactured with Negative Ion Technology provide antimicrobial protection throughout the product's lifespan.



Historically, silver was used by the Romans to treat burns and wounds, and by Ancient Greeks to keep water sterile in containers. Its antimicrobial properties were discovered in the 1800s, and it began being used in the healthcare sector in the 1890s.

Silver is listed on the FDA's (U.S. Food and Drug Administration) safe usage list. Before antibiotics were discovered in the early 1900s, pure silver was used to treat wounds. Today, it is known to eliminate 650 types of microbes, harmful bacteria, and fungi.



#### **Difference Between Antimicrobial and Antibacterial:**

Antimicrobial: Effective against a wide range of microbes, including bacteria, mold, fungi, and viruses.
Antibacterial: Effective only against bacteria.

Due to its silver ion release feature, it prevents the division and reproduction of 650 types of microbes and bacteria on surfaces or environments it contacts. Since the silver ions are integrated into the textile dye, the effectiveness lasts throughout the fabric's lifespan.



# Antimicrobial Effect: Negative silver ions destroy 650 types of microbes, viruses,

and harmful bacteria while protecting beneficial bacteria.

### Odor Protection:

Silver ion technology prevents bad odors, creating a clean and fresh environment. This ensures comfort and confidence for both patients and staff throughout the day.

# **Electromagnetic Protection:**Silver's high conductivity reflects electromagnetic

waves, providing protection against RF (radio frequency) radiation.

## Permanent Protection: Pelbien technology is not a chemical

lifespan and maintains its antimicrobial properties.

Pathogen Survival on Fabrics:

product. It extends the product's

## Bacteria can survive on cotton and polyester fabrics for weeks or even months. Since regular washing does not

prevent contamination. Pelbien technology enhances textile surfaces, supporting infection control protocols.

Anti-Edema:
By creating a magnetic field, it accelerates blood circulation

provide additional protection, it may not be sufficient to

## Thermal Effect:

and eliminates edema.

Nano Silver Technology reduces the adverse effects of temperature changes. It keeps the user cool in summer and warm in winter, improving overall comfort.









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