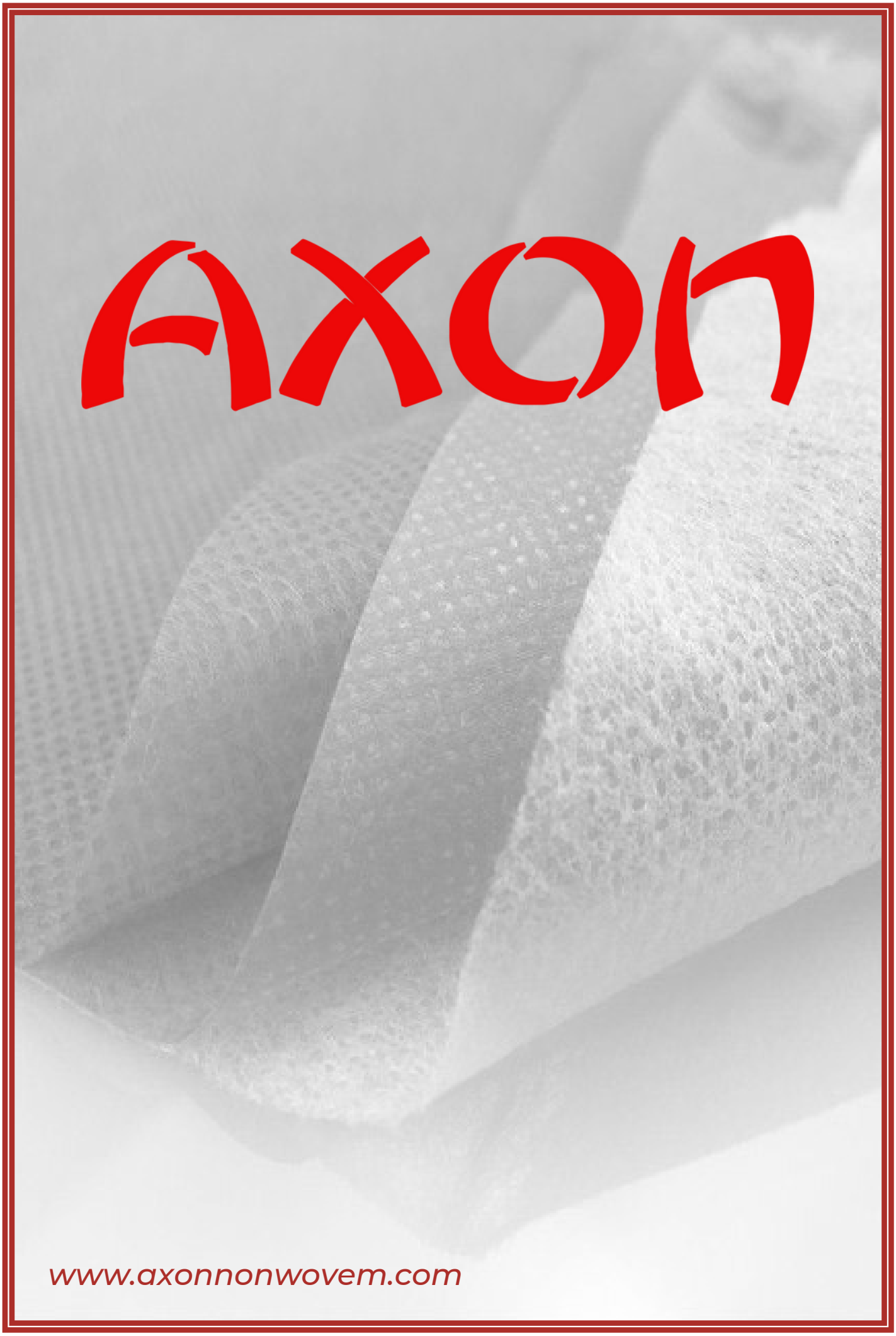
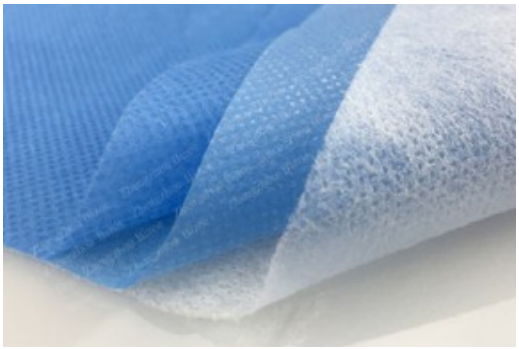

AXON
www.axonnonwovem.com



Experts combine non-woven textiles with different types of films (breathable and non-breathable) and other additives by using lamination technology to achieve the best results and produce special mats the can be used in various industries. This expands the use and function of a variety of nonwovens. Since non-woven possesses various qualities, the products are used in specific areas; for instance, in the medical, cosmetics, sofa, office furniture, bags, shoes and artificial leather industries.

Thermo-bond Pad

Suitable for Surgical Mask layers

Thermo-bond is a subset of the nonwoven textile industry. The Thermo-bond nonwoven is made of polypropylene (PP) or polyester (PES) fiber.
The Thermo-bond nonwoven is divided into two categories:

- Behbond (with hygienic PP fibers)

This nonwoven is made of a combination of polypropylene fibers that can be hydrophilic (water absorbent) or hydrophobic (water repellent) and its main applications are in the medical, cosmetic and health industries; such as disposable, hospital, clothes, bedsheets, pillowcases, surgical gowns, patient undergarments and masks.

- Takbond (with PES fibers)

This pad is made of a combination of polyester fibers. It is mainly used in filtration industries and cloths manufacturers.

Medigown

- Breathable film
- Non-breathable film

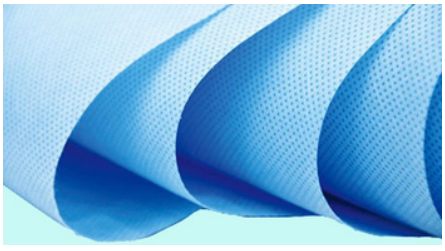
Suitable for disposable cloths

This layer is created by laminating breathable films
Applications: Isolated, hospital, clothes, surgeon gowns, disposable cloths and etc.

Medilon

Patient under pad

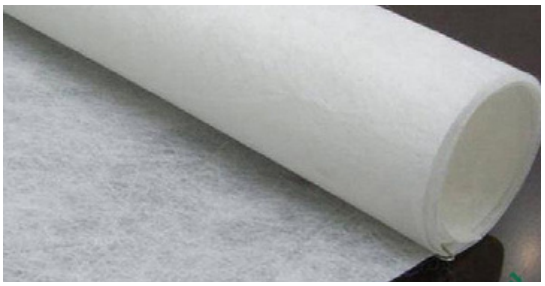
This layer avoids the penetration of patients body fluids and absorbs them.
Applications: The middle layers of the patient's under pads, etc.



Needle Punched Felt

Suitable for Industry of:

- **Automotive**
- **Filters**
- **Roofing & Isolation**
- **Geotextile**
- **Wiping Cloths**
- **Agriculture**
- **Civil Engineering**
- **Clothing**



Needle Pads

Needle pads are types of products that are manufactured from 80 to 700 grams per square meter and up to a width of 5200 mm. Automotive industries, filtration, insulation, medical equipment, geotextiles, carpets, clothing, etc. are some of the consumer markets for this product.

- **Needle pad in filtration**

These products are usually used in areas where the filter thickness should be less than five mm, such as bag filters, masks, and so forth. This pad is capable of absorbing dust and very fine particles. The particles are trapped inside the fibers in a manner that they do not accumulate on the surface.

- **Needle pads in insulation and isolation**

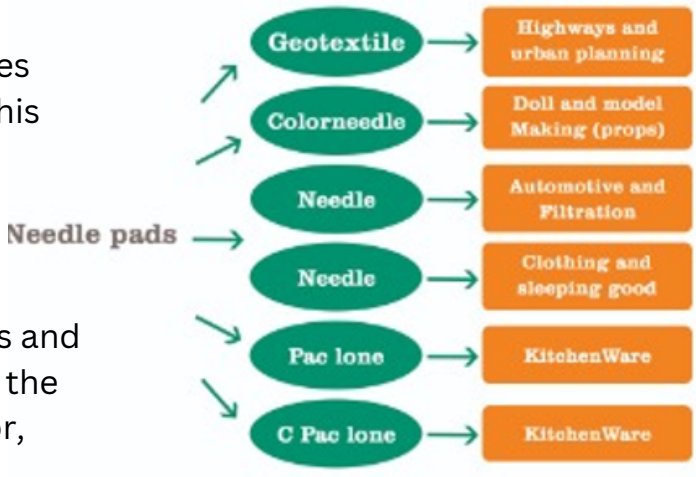
Needle pads can be used as insulation coatings on the roof, floor, and walls of a building to minimize energy loss.

- **Needle pads in the furniture industry**

Needle pads can be utilized as a cover for various pieces of furniture, or under the fabric and synthetic leather. The use of padding creates more protection and coverage for the defective areas of the foam, increasing the softness of the sofa surfaces, allowing air circulation.

- **Needle pads in highways and urban planning**

Geotextiles are permeable sheets of nonwoven textiles made of fibers such as polyester or polypropylene. This pas is employed in asphalt paving, building drainage, artificial turf protection, artificial lakes, etc.



- **Needle pads in car manufacturing**

This product, which can be produced in diverse colors and grammages, can be used as a cover in varous parts of the car, including the insulated facades of the engine door, roof, rear niche, rear trunk covers, and so on.

Coated Nonwovens

Suitable for Leather Industry, Shoes & Bags, Labels...

General features of coating products:

- **Odorlessness**
- **Breathability**
- **High sewing resistance**
- **Reversibility and softness**
- **Excellent tearing resistance**
- **Suitable abrasion resistance**
- **Optimal sewing and punching**
- **Excellent formability when heated**
- **High absorption of moisture and foot sweat**
- **Optimal and reduced adhesive consumption**

Coated Nonwovens

In coating processes, textiles can be immersed in polymeric materials (in molten, Liquid, and paste forms) or the surface can be covered with these types of materials. This process is to increase the strength and prevent water leakage (water-proofing), dust, and aerobic bacteria from settling in the textiles. This variety of goods are produced in two types, coated and split nonwoven forms, with different thicknesses, weights and widths up to 1800 mm to be used in the artificial leather industries, bags and shoes manufacturers, etiquette producers, automotive sectors and etc.

Venidon

Venidon is available in roll forms, which is used to increase the strength and durability of leather. This nonwoven gives a dry touch to leather shoes and bags. Venidons are placed between the lining and the leather. It is normally used on the toe and heel of shoes and inside sandals to create firmness.

Spilon

Split non-woven (Spilon) is one of the exclusive products in Iran and Middle East, which is mainly used in the main layer of bags and shoes. Spilon is softer compared to Venidon and is used as a middle layer on the back of the inner layer of the shoe and can be produced with different thicknesses ranging between 0.7 mm and higher and widths up to 1800 mm. The notable associated features are high moisture and sweat absorption quality, excellent resistance to stitching, reversibility, softness, high reistance to tearing, and breathability.

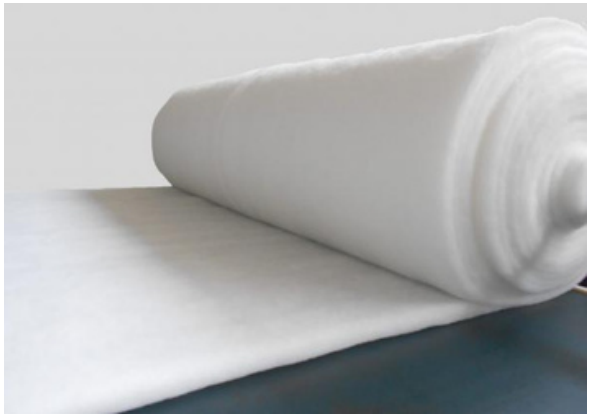
Sentilon

This product is also a variety of felt and alike Venidon, is used in shoes as an middle layer between the soles, to increase the strength of bags and shoes. This type of nonwoven is softer, more reversible, and flexible compared to Venidon.
Sentilon can be used in the production of military and safer shoes and sometimes in the production of sandal back layers.

Tectex

This pad is made of non-woven fabrics with resins and other additives, and the production process is such that after finishing, it will increase durability and compactness to the extent that it is widely used in manufacturing of bags, leather and sport shoes. This nonwoven has a drier texture than Venidon. For this reason, it is reliable option for use in shoe soles.
Tectex is produced with two methods: normal Tectex and adhesive thermal Tectex.

THERMO FUSE



Application

Filter industry, Quilt, Clothing industry, sleeping bags...

This product group is produced from 100 to 800 gsm and up to 2400 mm width.

Advantages of the Termo fuse:

- **Affordable**
- **Eco-friendly**
- **Can be produced from recycled fibers**
- **Has elasticity and reversibility**
- **Homogeneity and homogeneity with the coating surface material**
- **Reduces suspended particles and unwanted odors**

Spunbond

Applications:

Disposable diapers, hygiene and healthcare textiles, filtration, automotive industry, civil engineering, packaging, carpet backings

Medical, Personal Care & Hygiene: The fabric is used to make surgical masks, surgical dressing, operation gowns, hospital bed sheets, among other medical utilities. Diapers, medical caps, sanitary napkins, shoe cover, surgical dress, Isolation Gown, operating coat, disinfecting bag, disposable health cloth, etc.,
Clean, dust-free workshops with ultraviolet insecticidal facilities are maintained at Rajshree fabrics to ensure that these disposable medical products are sanitary and non-polluted.

Apparel & Accessories: Coveralls, pillowcases, clothing, all kinds of the synthetic leather base cloth, etc.

Agriculture: Crop Covers, Weed Control Fabrics, Nursery Overwintering, Roots Bags, crop protection fabrics, nonwovens for seeds. Anti-aging non woven fabric is widely used in weed control in agriculture, seeds breeding, crop protection. The UV-stable non woven can be degraded in nature; it is environment-friendly and leaves no residue behind.

Construction, Furniture packaging: Roofing and Tile Underlayment, Pipe Wrap, food packaging, Sofa, and Mattress Lining

Fiber Fabric

Natural fiber mattresses contain some of the most durable, resilient, supportive and comforting fiber fillings. Not only will they last considerably longer than most entry-level mattresses, they will be far more breathable and responsive than any synthetic, man-made fiber alternatives

Jacquard fabric is characterized by the design being woven into the fabric, creating a raised pattern with incredible texture, which woven types of Weaving and Knitting.

The advantages of this type of fabric include temperature regulation and aromatherapy

It should be noted that jacquard fabrics are the best fabric for medical mattresses





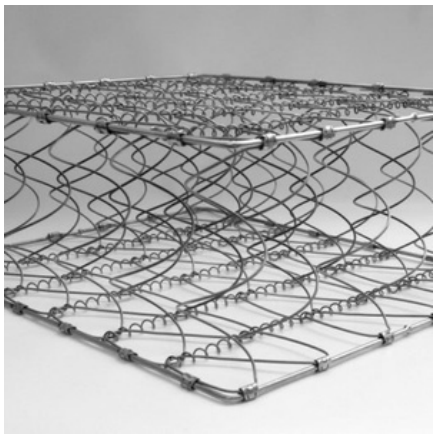

Wire

Spring wires are used to make the mattress skeleton in single and double beds...

These types of wires are usually produced in three sizes:

- 4 mm wire as known for the frame around the mattress

- 1.4 mm rolled wire for the spring connecting the bonnells



- 2 or 2.2 mm wire to make bonnellsl

Polyester Staple Fiber

Recycled Polyester staple fibre is a synthetic man made fibre made from PET/Polyester waste and post consumed PET bottles. It is used in Non-Woven carpets, wadding, filtration industries, as a polyfill for stuffing cushions, pillows, soft toys, quilts

Virgin & Recycle PSF

White and colored polyester fibers for the production of all kinds of layers and yarn spinning

Low Melting Fiber

Fibers with low melting temperature (BICO) for thermobonding layer fabric

Hollow polyester fibers

Hollow fiber gets its name from the fine, hollow strand of polyester that it is made from. The hollow centre traps air and helps to provide a lofty duvet filling. Hollowfiber bedding is very light, so you can get incredibly warm, high-tog bedding without having a thick duvet on your bed

Solid fiber

Solid fiber products offer versatility and durability, which are designed to be stronger and more moisture resistant than corrugated packaging and as a cost savings replacement for packaging materials such as wood, rubber, plastic or styrofoam.

Felt

Felt is a textile that is produced by matting, condensing and pressing fibers together. Felt can be made of natural fibers such as wool, or from synthetic fibers such as acrylic
Which produce in three types of : Hard , Medium Hard, Medium, Soft

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