

**PAN Tex**  
Nonwoven Private Limited



**Sustainable fabric for Care**

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[www.pantex.in](http://www.pantex.in)



## VISION

To be the most compelling, trustworthy and best in class quality partner for supplying the sustainable fabric for the global ecosystem, creating an environment which cares .



## MISSION

To revolutionize the non woven industry by producing and catering the most sustainable fabric for versatile usage. From hygiene to geo care and creating a premium social value 'care' with its remarkable innovative technology, benchmarking the excellence.



## ABOUT US

PAN Tex Nonwoven Pvt. Ltd. is the technical textile vertical of PAN Group manufacturing the SSMMS Hygiene and Medical grade nonwoven fabrics with the best among all, German designed technology having German components. The plant has been designed, keeping in mind the nature of the products, hygienic conditions, dust free atmosphere and is strictly maintained. With excellent production equipment, rich professional knowledge and experience.

We are currently operating from an ISO 9001:2015, WHO-GMP, ISO 14001:2015, ISO 45001:2018, CE, SEDEX compliant, World Class Manufacturing facility; having Facilities like Clean-Hygiene Production Area, Extensive storage space for Raw Material and Finished goods alike. The manufacturing facility implements WHO-GMP practices & Uni-directional process flow to maximize efficiency & quality of product.

With our cutting-edge German designed technology, we use the best in class German components like Andritz Küsters Calender and Reifenhauser Reicofil (Enka Tecnica) Die & Spinnerets. We manufacture a wide range of Spunbond (SSS), Spun-Melt (SSMMS) and Specialty Fabrics in our roll goods form and in weight per unit area range of 9-100 GSM. With our motto of "Fabric for CARE" we make Extra Soft, Cotton like, smooth,

gentle to skin material for Hygiene Care, Health Care, Agri Care, Home Care, Lifestyle Care, Aqua Care, Auto Care and Geo Care.

For these 'Fabrics for Care' we offer many surface treatments (Hydrophilicity, Anti-Static, UV, Alcohol Repellent, Anti Microbial, Anti Bacterial etc.) with different colors and slit width of 50-3200 m.m. We offer the highest-quality solutions to customers globally, using the most up-to-date technologies



## OUR LEGACY

PAN Group is a family run business conglomerate based out of Rajkot, Gujarat. It has ventures in multiple vertics like cotton, edible oil, cattle feed, cement, renewable energy, hygiene, decorative laminate, medical, hygiene fabric, etc. It has built a strong foundation of over 3.5 decades of experience in various industries.



# PAN Tex Nonwoven Pvt. Ltd.

(Medical & Hygiene Technical Textile)

2021

## InnoDesigns

(Online Furniture Shop  
for your dream space )  
2021



**Wet & Dry**  
(Feminine Hygiene)  
2019

**PAN Health**  
(Health & Hygiene  
(Baby & Adult Diapers)  
2016



**PAN Capital**  
(Forex & Financial  
Services) 2013

**PAN Power**  
(Renewable Energy)  
2013



**Advance Laminates**  
(Decorative  
Laminates) 2005

**Sadguru Cotton**  
(Oil Mill and Refinery)  
2001



**Krishna Metacraft**  
(Agri Equipment  
Mfg.) 1996

**Jaydeep Cotton**  
(Cotton Ginning &  
Exports) 1997



**Hi-Bond Cement**  
(Cement  
Manufacturing) 1995

**PAN Agri Export**  
(Agri Trading)  
1982



# PAN Tex

Nonwoven Private Limited

## 01. Hygiene CARE

### Application

- Baby Care
- Adult Care
- Fem Care
- Under Pads
- Pet Care

### Advantages

- Extra Soft
- Cotton Like
- Smooth
- High Loft
- Gentle to Skin
- Hydrophilicity

## 02. Health CARE

### Medi Care

- Gowns
- Drapes
- Wraps
- Sterilized Clothes
- Bed & Pillow Covers

### Personal Care

- Mask
- Cap
- PPE Kit

### Advantages

- Static
- Anti Static
- Alcohol Repelant
- Anti Odour Agents
- Anti Microbial
- Anti Bacterial
- Anti Viral

## 03. Agri CARE

- Crop Covers
- Soil Covers

### Advantages

- UV Resistant

## 04. Home CARE

- Sound absorbing Material
- Insulation material
- Water Proofing
- Roofing Sheets

## 05. Lifestyle CARE

- Mattresses
- Bedding
- Bed Covers
- Furniture
- Curtains

## 08. Geo CARE

- Road Construction
- Building Construction
- Soil Erosion Control

## 07. Auto CARE

- Roofing Sheet
- Automotive Interior Material
- Insulation Material
- Waterproofing

## 06. Aqua CARE

- Reverse Osmosis
- Micro Filtration
- Nano Filtration

Fabric for  
**CARE**



# PAN Tex's Fabrics for Care



## Hygiene Care

Quality and Hygiene of the product become even more crucial when considering the intimacy of the product to the user and we at PAN Tex Nonwoven take the utmost care to guarantee these qualities.

### Spunbond or Spunmelt fabric:

- They provide a high barrier to prevent leaks.
- Have high absorption and minimal migration properties.
- Gives comfort to the user through softness and drapability.

### Effective treatments:

- Enduringly hydrophilic
- Botanical Extracts used for Skincare Treatment

### End products:

For Hygiene care products like disposable diapers, sanitary napkins, underpads, pantyliners, adult incontinence products, training pants, etc. PAN Tex nonwoven is the ideal choice.

Benefits of opting our nonwovens include: Extra soft, absorbent, cotton like, smooth, loft, gentle to skin and they're hydrophilic.

- **Baby Care** - Our Super Soft, Cotton like, High Absorbent products can be the perfect fit for you. We have the 'Open Type' and 'Pant Type' baby diapers with waist band, back ear, side panel, top sheet, core wrap, leg cuffs or leak guard and back sheet.
- **Adult Care** - We offer the best Adult Care fabrics to suit their comfort. Adult diapers for light, moderate and heavy incontinence, respectively. They comprise top sheet, core materials, front ear, side panel, leg cuffs or leak guard, back sheet and a waist band.
- **Fem Care** - Tampons, sanitary napkins and pantyliners can be best made with our Super Soft & High Loft nonwoven fabric. They come with top sheet, side panel, back sheet, leak guard, side gathers and leg cuffs.
- **Under Pads** - We have hospital underpads and baby underpads with excellent Absorbency Property and Protection Property.
- **Pet Care** - Underpads and diapers for pets.



## Health Care

We provide nonwovens for end products of Health Care like masks, PPE Kits, caps and medical care items like gowns, drapes, wraps, sterilization cloth, bed & pillow covers

### **Personal Care:**

Various functional layers in protective face masks and respirators can be made of PAN Tex nonwoven and nanofibre-treated products. We use Spunbond method to make our nonwovens for end products like PPE kits, bouffant caps that are air permeable, flexible, sterilisable and absorbent.

### **Medi Care:**

We have nonwoven fabrics that are used in a variety of medical applications like gowns, drapes, wraps, sterilization cloth, bed & pillow covers.

- **Spunmelt** - It provides a strong barrier and greater protection.
- **Infection control** - It is accomplished through the use of a high hydrostatic head and alcohol repellent treatments.
- **User comfort** - It is attained through anti-static performance, drape and air-permeability and softness of our nonwovens.
- Consistency is the key to achieving the fabric's uniformity and consistency of appearance. High mechanical strength and tear resistance are used to achieve that strength.

### **Medical Laminates:**

High barrier, breathable medical laminates are produced by adhering breathable films to spunmelt nonwovens. These items are used to manufacture Surgical Gowns, Drapes, PPE Kits, and Biohazard Kits, all of which must provide the highest level of barrier characteristics and protection for Surgeons, Nurses, Patients, and Healthcare personnel

**Process treatments that can be done on our nonwovens include: Anti Static, Alcohol Repellent, Anti-odour Agents, Anti-microbial, Antibacterial and Antiviral.**



## Agri Care

Agriculture produce and plants are shielded from pests, hail, strong winds, and changing weather conditions through end products like, 'Crop Covers' and 'Soil Covers' that can be made from our nonwovens. Crop cover non-woven fabric ensures water and air permeability to the roots of the crops, reducing maintenance at later stages of yield.

- Fabric has exceptional strength.
- Additional benefit is our UV resistant non woven fabrics.
- Reduction in the need for the chemical treatment for the plants.
- Better Gas exchange capacity thus less suffocation to the roots.
- Prevents frost bites.
- Aids in Organic agriculture.





## Home Care

Good quality end products are essential when they're being used for houses and buildings. Our nonwoven fabrics can produce a variety of products such as:

- Sound Absorbing Material
- Insulation Material
- Water Proofing
- Roofing Sheets

- Nonwovens are offering affordable and effective solutions to the challenges being faced in building and construction in light of rising oil prices, climate change, CO2 regulations and building regulation codes on fire resistance.

- Homes and buildings can benefit from nonwoven panels for thermal and acoustic insulation because they are made of a fibrous structure, which by its very nature has both thermal and acoustic properties.

- The creation of waterproof coated fabrics involves the use of non-woven fabric with varying layers and thickness. In order to create waterproof coated fabrics, this research uses the roller method of coating.



## Lifestyle Care

With the freedom to combine cutting-edge design, impeccable manufacturing, noise reduction, durability and comfort, PAN Tex nonwoven enable the development of ideal bedding solutions. They include Mattresses, Bedding, Bed Covers, Furniture and Curtains.

- **Mattresses and beddings** - High-strength textile-like fabrics known as 'needlepunch nonwovens' are created for the long-term comfort of a high-quality mattress and bedding. The fundamental needs of pocket spring and mattress construction are met by spunbond nonwovens.
- **Bed covers** - The non-woven bed covers have a composition, design and surface treatment that promotes thermophysiological comfort by transferring air, heat, and moisture rather than inducing an allergic reaction.
- **Furniture** - Our nonwovens can be used as the lining of cushions for outdoor furniture or as upholstery for the seat, backrest, armrest and body covers of upholstered furniture. They increase the outer cover's stability in leather furniture. Thus, the nonwovens contribute to long-term comfort and help prevent unsightly creases.
- **Curtains** - Spunbonded non-wovens can also be used as a backing layer for curtains and furniture. They're used in offices, restaurants and hospitals because of their lightweight property and strong stitching.



## Aqua Care

Our nonwoven materials can be beneficial in the use of Reverse Osmosis, Micro Filtration and Nano Filtration. In comparison to other materials, nonwoven material produces better filtration efficiency. Nonwoven needle felt fabrics are typically used as filtration materials.

- Nonwoven webs can filter almost anything, from macro to nanoscale particle sizes, thanks to their high barrier properties, good stability at very high temperatures, and strength.
- The filtration efficiency of nonwoven fabric is typically higher than that of woven or knit fabric.



## Automotive Care

The usage of nonwovens in automotive care is highly preferable because they contribute to the weight reduction of the car, improve comfort and aesthetics. They also offer advanced insulation, fire retardancy, resistance to water, fuels, extremes of temperature, and abrasion by incorporating the essential properties required for good performance and safety.

### **We provide nonwovens for end products like:**

- Roofing Sheet
- Automotive Interior Material
- Insulation Material
- Waterproofing.



## Geo Care

With our Geo Care range of non-woven fabrics, we provide end products that can be used in various aspects like, Road Construction, Building Construction, Soil Erosion Control.

- In order to reinforce the soil basement's tensile-transformation properties geo nonwovens are the ideal choice.
- An important element that contributes to an antistatic nonwoven fabric's efficiency in construction, is its thermal properties. The fabric is a uniform mixture of fibres, moisture and air, all of which contribute to the fabric's thermal properties.
- In comparison to woven geotextile, nonwoven fabric is more stretchable and it resembles a felt fabric. This enables water to flow along the geotextile's plane much more easily.



# WORLD CLASS TECHNOLOGY USED



## Spun-Melt Technology

The line manufactures a Composite Spunmelt fabric, which is a hybrid of 'Spunbond' and 'Meltblown' fabrics. Typically, the 'Spunbond' fabric provides the fabric with strength, while the 'Meltblown' fabric offers barrier, filtering & preventive qualities.

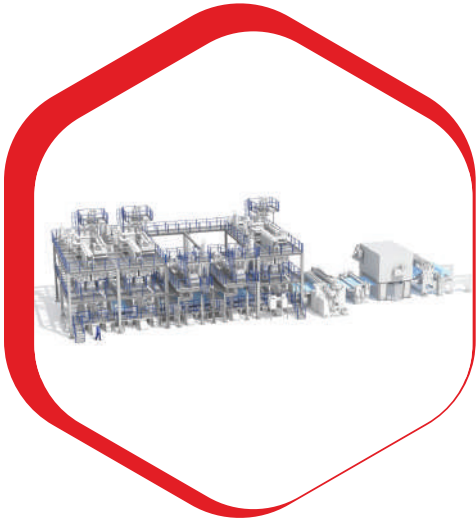
Depending on the application/end use, both types of fabrics are placed on top of one another to create a composite or multilayer structure.

### ■ A Variety of Permutations and Mixtures:

The machine can create a variety of thicknesses and basis weights, ranging from 10 GSM to 100 GSM, with different lengths and compositions.

### ■ Multiple Color, Size, and Additives:

The machine is capable of producing a variety of coloured fabrics that can be slit to the necessary sizes depending on the needs of the product. The line is well-equipped with additional accessories from reputable European suppliers.



## Spunbond Technology

The Spunbond Technology is used commonly for producing nonwoven fabrics. This technology comprises 4 processes, spinning, drawing, web formation and web bonding. Spunbond Technique offers superior tensile properties at a weight of fabric. In simple words, the fibers are spun and then they're dispersed into a web through deflectors or they can be directed through air streams. Using this technique leads to faster belt speeds and cheaper costs.





## Meltblown Technology

This technology consists of a method called, 'conventional fabrication of micro and nano-fibers'. In this technique, a polymer melt is extruded by small nozzles which are surrounded by high speed blowing gas. Here there's a direct conversion of a polymer into continuous filaments which are integrated with the conversion of filaments into a nonwoven fabric.



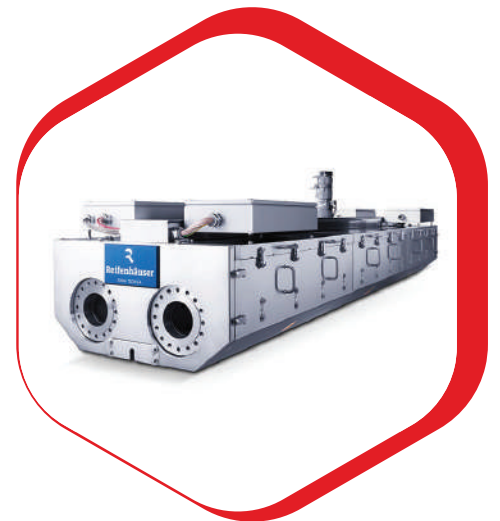
## Calendering: Andritz Küsters

To get the best bonding results, calendering is the most important component in the nonwoven machine. We are using the 'neXcal twin aXcess' three-roll nonwoven calendering technique to get the best bonding result for our 'fabric for care'. The technology from Andritz is used to produce our nonwoven products. Andritz is recognized on an international level as specialists in machine technology. The 'neXcal twin aXcess' three-roll nonwoven calender is developed to open new horizons in terms of providing the best results of the fabric.



## Die and Spinnerets: Enka Tecnica (Reifenhauser Group)

To achieve the best denier in the fine filament's die and spinnerets, one of the most critical components in the machine, we have technology from Enka Tecnica. It is for our Spunbond and Meltblown die and spinnerets. For many years, Enka Tecnica has been the go-to business for spinnerets and precision components. We are using 100% German highly specialized capillary designs for achieving the right denier and super fine fabric.





## Reicofil Design Technology

The Nonwoven machine design technology at PAN Tex is inspired by Germany's Reifenhauser Reicofil GmbH & Co. KG. Our technology provider is a world leader in the development of specialized equipment for the production of non-woven fabric. Their fabrics have the best tensile strength, tear resistance and uniform consistency among non-woven materials. Thus, the fabric becomes a complete solution for improved protection with excellent performance that is suitable for Hygiene Care, Health Care, Geo Care, Automotive Care, Lifestyle Care, Home care, Aqua Care and Agri Care applications. The technology makes it possible to consistently produce vast quantities of nonwovens that are especially light, soft, and durable while still upholding the highest standards of quality.



## Value Treatments

We have a specialized, cutting-edge facility for both online and offline treatment. The technology is very capable of producing treatments such as:

- Antistatic
- Alcohol Repellent – AR 7 – 9 categories with the highest needed Hydrostatic Head
- AS & AR- Antistatic and Alcohol-Repellent
- Antimicrobial/Antibacterial
- Antiviral
- Additional Innovative Topical Treatments



## Medical Fabric Treatment

Alcohol Repellent (AR) & Antistatic Treated (AS) – High Barrier, Single-Use SMS Fabrics are created by chemically treating SMS fabrics with Alcohol Repellent & Antistatic chemicals.

These materials are used to produce surgical gowns and drapes that provide a high level of protection in surgical situations and user comfort for Surgeons, Nurses, Patients, and Healthcare Professionals.

**The manufacturing procedure for AR-AS Treated SMS fabrics comprises mostly of two steps:**

- Spunmelt Method
- Offline Treatment Method



## OUR EDGE

### OUR FACTORY & MANUFACTURING

- We offer an Online Packaging Solution in order to have a 'Non-Contact' Packaging of Single-Use Medical and Hygiene Products. It makes us a Fully Integrated Solution Provider.
- A commitment to cooperative development with raw material suppliers, technology providers and end-users.
- Our stakeholders are integral for the company, going beyond to the end-users.

### OUR INNOVATION / R&D

- In order to build a Center of Excellence, our Innovation and Research and Development Center was established and is currently being operated smoothly.
- Professionals are pushing the boundaries of our industry by working together to develop value-added products and cutting-edge technology.
- We are receptive towards emerging trends and technological advancements in the textile industry.
- Our devotion towards continuous improvement, our commitment to the environment and its sustenance is the fuel of our innovation.
- With our advanced technology and laboratory, we are one of the top companies for Nonwovens in India

## OUR CUSTOMER-LED CO CREATION

- In order to support our clients' markets, we wish to have collaborations with them.
- Recognition of problems in the supply chain and production to promote a constant flow of fabrics to the facilities.
- Identifying breakthrough product advancements and emerging trends in Medical and Hygiene to help our customers better their unique selling propositions in their respective markets.
- It is essential to have a deeper awareness of the market in order to assist the customers in providing better solutions for their respective markets.
- We are enthusiastic to use our network base to promote specialist clientele for export markets.
- We will readily assist our customers to expand their high-value products.
- We pay attention to our customers' feedback and accordingly do detailed R & D and improvise by investing in cutting-edge technologies.



## OUR QUALITY & STANDARDS

- The product quality- We adhere to the global standards of quality.
- We maintain a high quality manufacturing process.
- Our quality meets the ISO 9001:2015, 14001:2015, 45001:2018 standards.
- We observe the customer requirements and comply with their standards.
- Global Standard Practices are incorporated into PAN Tex's standards.
- WHO-GMP, CE, SEDEX Compliant Manufacturing Unit.





## OUR QUALITY CONTROL AND LABORATORY :

PAN Tex has acquired the best equipment in terms of advanced technology that is being used to produce nonwovens in India. We are equipped with the finest and premium technological amenities that produce standard quality products of nonwoven fabrics in India. The following factors have been taken into account throughout the setup and maintenance of the plant:

- Advanced automation systems for manufacturing and packaging.
- A dust-free environment.
- Minimal human intervention with rolled goods.
- The industrial facility has excessive pressure which keeps the pollutants outside.
- At PAN Tex, we employ procedures that are cost-effective, sustainable and energy efficient. They are particularly suitable for industrial applications and hygiene.
- We follow International Certified quality systems and practices.

## WE CONFORM TO

- EN Standards
- AAMI Standards (Level 1, Level 2, Level 3 & Level 4)
- AATCC Standards
- BIS Standards
- NWSP Standard
- EDANA Standard
- ASTM Standard



Providing excellence through

# High Quality Fabric





# PAN Tex

Nonwoven Private Limited

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