



ITTA signed MOU with INTERNATIONAL FINANCE CORPORATION (IFC)

- Achieving PPE quality to International Standards
- Grow Export
- Knowledge dissemination on PPE kits through webinars/exhibitions

OVERWHELMING RESPONSE RECEIVED ON FIRST CERTIFICATE COURSE ON PROTECTIVE TEXTILES HELD IN APRIL 2021

- Next Courses will cover Other Key Segments of Technical Textiles.
- Courses will be Repeated in a cyclic manner



INDIAN TECHNICAL TEXTILE ASSOCIATION

LAUNCHES

CERTIFICATE COURSES ON

- MEDICAL TEXTILES
- PROTECTIVE TEXTILES
- NONWOVENS

COURSE DETAILS - 5 days (4 Hrs/ day) through Digital Platform

- Overview of all 12 Verticals of Technical Textile
- Products covered under Specific Verticals
- Manufacturing Processes
- Input Materials used
- Maintenance Practices
- Process & Quality Control Techniques
- Performance Standards, Testing & Compliances
- Supply Chains-RM to Finished product
- Overview of Applications

WHO SHOULD ATTEND

- Managers
- Supervisors
- Production & Quality Professionals
- Sales Professionals
- Textile Graduate, PG & Diploma Students

BENEFITS

- Candidates will get a Certificate with Rank
- Certificate will be honoured by Industry
- Acquire knowledge thru Theory & Practical
- Opportunity to interact with Industry Experts

*Interested candidates may write/contact/
email to ITTA in advance -*

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COURSE FEES

Category	Rates*
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Non Members	Rs. 12000/-
Students	Rs. 2000/-

Early Bird Discounts & Group Booking facilities available

*Taxes as applicable



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ITTA DEFENCE HANDBOOK

INDIAN TECHNICAL TEXTILE PRODUCTS FOR DEFENCE

- A GLOBAL REACH -

Handbook covered major areas of Defence products with Indian Manufacturers' Names, Contact Details and Product Specifications i.e.

- *Protective Clothing & Accessories*
- *Collective Protection*
- *Load Carrying fabric*
- *Geosynthetics*



**RATE
Rs. 750/-**

**Courier charges extra*



For Copies Contact-

INDIAN TECHNICAL TEXTILE ASSOCIATION,

314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059

Tel: +22 49635711, Mob: +91 9769464616; Email: info@ittaindia.org;

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INDIAN TECHNICAL TEXTILE ASSOCIATION

314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059.
Mob: (O) +91 9769464616 Email : officeed@ittaindia.org Website : www.ittaindia.com

EXPORT-IMPORT PERFORMANCE OF TECHNICAL TEXTILE PRODUCTS OF JANUARY 2021

(ITTA Analysis on Ministry of Commerce and Industry Data)

The data on export and import of 207 technical textile products/items is published as an indicator of foreign trade performance of technical textile industry in India.

A. EXPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Jan 2020	Jan 2021	% Growth	Apr'19-Jan'20	Apr'20-Jan'21	% Growth
1	Agrotech	66	69	4%	521	554	6%
2	Buildtech	77	73	-6%	600	599	0%
3	Clothtech	19	20	3%	169	168	-1%
4	Geotech	114	187	64%	887	1441	62%
5	Hometech	11	16	49%	119	134	12%
6	Indutech	164	171	4%	1584	1431	-10%
7	Meditech	108	122	13%	934	1004	8%
8	Mobiltech	142	117	-17%	1207	1076	-11%
9	Packtech	442	639	44%	4489	4554	1%
10	Protech	40	46	15%	425	369	-13%
11	Sportech	28	34	21%	202	238	18%
12	Nonwoven	89	174	96%	835	1321	58%
	GRAND TOTAL	1300	1668	28%	11972	12889	8%

Data Source: ITTA Analysis on Ministry of Commerce and Industry (at 8 digit level of HSN Codes)

It can be observed from the above data --

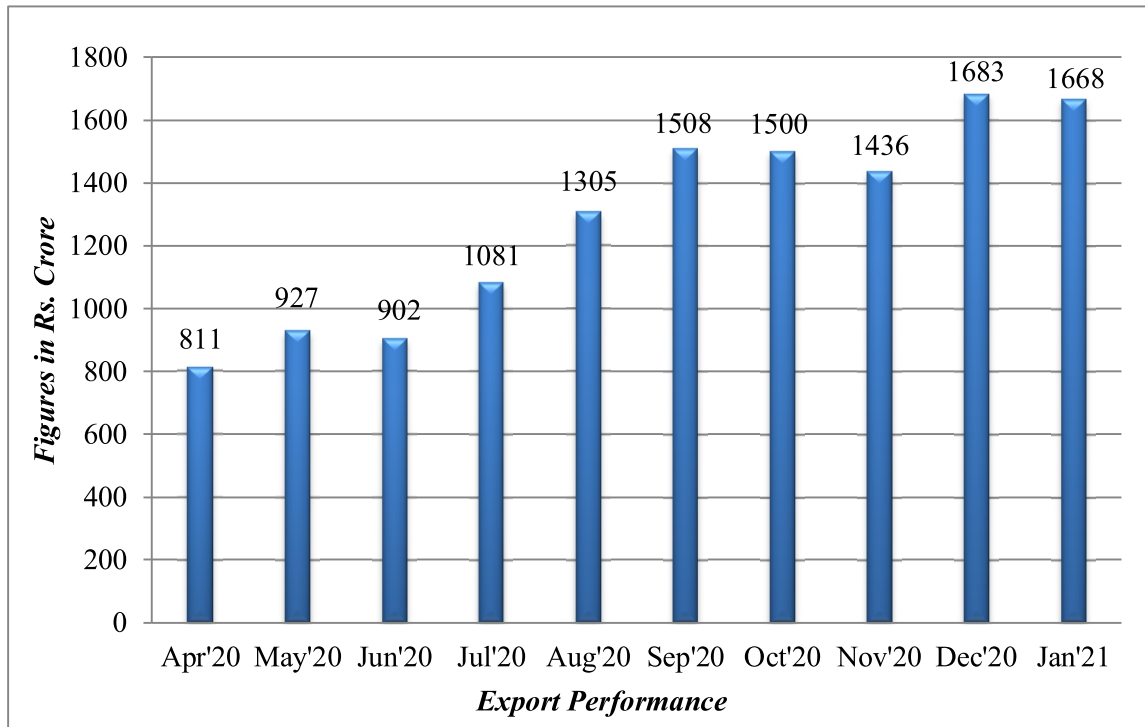
1) Monthly Data (Jan'20 vs. Jan'21) of Top Four Growth Sectors

- Nonwoven (+96%)** - Key Products: Wadding of man-made fibres, Nonwovens of man-made filaments: weighing more than 25 g/sqm but not more than 70 g/sqm and Felt made of Jute & other textile materials.
- Geotech (+64%)** - Key Products: Geogrids and Geo-composites.
- Hometech (+49%)** - Key Products: Pile & Chenille fabrics, Carpets & other textile floor coverings and Gas Mantle Fabrics.
- Packtech (+44%)** - Key Products: FIBC and Jute hessian & sacks.

2) Year to date Data (Apr'19-Jan'20 vs. Apr'20-Jan'21)

- Geotech (62%)** - Key Products: Woven Geotextiles and Geogrids
- Nonwoven (58%)** - Key Products: Other Nonwovens: weighing not more than 25 g/sqm, & weighing more than 25 g/sqm but not more than 70 g/sqm and Wadding of man-made fibres.

Figure 1 - Monthly Trend of Export Performance



The above export figures show an increase in the month of December 2020 and then there is a slight decrease in the month of January 2021.

B. IMPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Jan 2020	Jan 2021	% Growth	Apr'19-Jan'20	Apr'20-Jan'21	% Growth
1	Agrotech	27	29	7%	302	235	-22%
2	Buildtech	218	173	-21%	1654	920	-44%
3	Clothtech	24	24	-4%	241	153	-37%
4	Geotech	133	159	20%	1325	990	-25%
5	Hometech	51	28	-45%	499	308	-38%
6	Indutech	225	245	9%	2141	1829	-15%
7	Meditech	66	124	89%	538	674	25%
8	Mobiltech	399	492	23%	3978	3115	-22%
9	Packtech	58	49	-17%	467	361	-23%
10	Protech	29	42	43%	380	332	-13%
11	Sportech	13	15	13%	106	97	-9%
12	Nonwoven	198	160	-19%	1638	1296	-21%
	GRAND TOTAL	1441	1540	7%	13269	10310	-22%

Data Source: ITTA Analysis on Ministry of Commerce and Industry (at 8 digit level of HSN Codes)

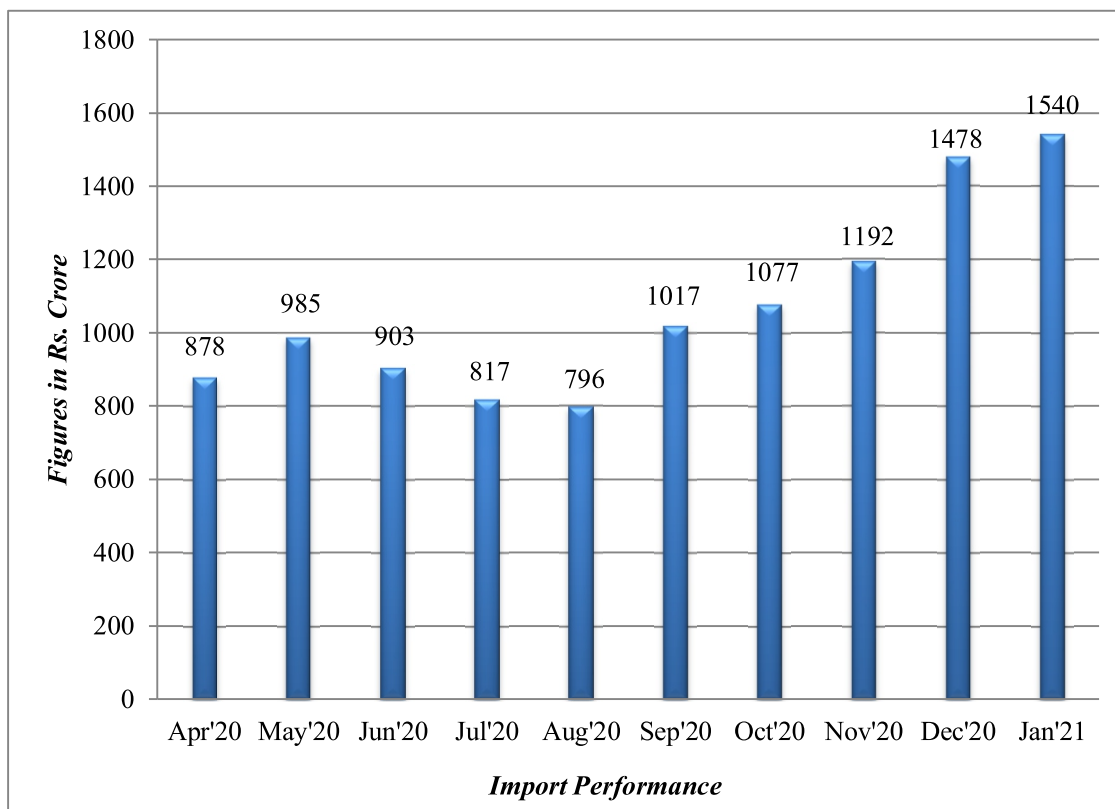
It can be observed from the above data --

1) Monthly Data (Jan'20 vs. Jan'21) of Top Four Growth Sectors

- a. **Meditech (+89%)** - Key Products: Adhesive Gauze Bandage, Tampons and Adult Diaper.
- b. **Protech (+43%)** - Key Products: Rubberized textile fabrics for Industrial Gloves & Mittens and Bullet Proof Jackets.
- c. **Mobiltech (+23%)** - Key Products: Nylon Tyre Yarn and Tyre Cord fabrics of other textile.

2) Year to date Data (Apr'19-Jan'20 vs. Apr'20-Jan'21) - This data shows the negative fall in 11 TT segments but there is a growth in Meditech i.e. 25%.

Figure 2 - Monthly Trend of Import Performance



As per the above data, India's imports of TT products have registered a subsequent growth from the month of September to January 2021.

ITTA signed MOU with International Finance Corporation (IFC)

ITTA has signed Memorandum of Understanding (MOU) with **INTERNATIONAL FINANCE CORPORATION (IFC)**, a member of The World Bank Group in March 2021 to help & develop PPE industry in India. Objective of the MOU: The PPE global advisory market-level work in India aims at creating and disseminating knowledge and includes activities that will focus on: (i) increasing the knowledge of national labs in India; (ii) improving the understanding of key stakeholders on voluntary standards for non-medical masks; and (iii) increasing global knowledge on PPE topics through a series of webinars and publications targeted to PPE firms but open to other relevant stakeholders from the public and the private sectors.

The First IFC and ITTA meeting was scheduled on 15th April 2021 to introduce the IFC PPE program work areas to ITTA members and seek inputs from

the participants on specific areas that will be most useful to them. The webinar was attended by Dr. Sundararaman K S, Chairman, Dr. Anup Rakshit, ED and ITTA members companies namely- Park Nonwoven, Loyal Textiles, Sai Synergy, Sivshree Medittex (India), Pacific Harish Industries, Dispoline India and Quantum Knits.

Eminent speakers were Graham Clements, Certification Manager PPE, British Standards Institute (BSI) and Michelle Steenvoorden, VP, Professional Services, Gerber Consulting. The major area of the meeting was to create a knowledge base around international standards, certification, new technologies, and related aspects of the PPE business. The idea was to improve stakeholders' capability to apply this knowledge to their businesses and facilitate export to international markets.

Webinar on Investment Opportunities in India's North East and Textile Sector

Taiwan Technical Textiles Association, India Taipei Association and Invest India jointly organized a Webinar on Investment Opportunities in India's North East and Textile Sector on 24th March 2021 on a virtual platform.

The eminent speakers were Mr. Sanjay Papneja, Manager, Indian Oil Corporation Limited, Ms. Rui Ong, Global Business Consultant, Mr. Max Chang, CEO, Pinacell Co. Ltd, Dr. Alka Bhargava, Additional Secretary, Ministry of Agriculture, Mr. Pabitra Khaund, Secretary to the Government of Assam, Industries and Commerce Department, Dr. Elizabeth Saipiri, Director of Horticulture, Government of Mizoram, Mr. Maqbool Lyngdoh, Directorate of Food Processing, Government of Meghalaya, Mr. Raval H. Kumar, Director of Industries & Commerce, Government of Tripura and Dr. Anup Rakshit, Executive Director, ITTA. Webinar was attended by over 50 attendees.

Dr. Anup Rakshit gave a presentation on the "Growth Potential of Technical Textiles in India including Natural Fibres". He spoke about the 12 Technical Textile segments and its domestic production. He highlighted the Global vs. Indian market scenario i.e. Indian technical textiles market constitutes only 6% of the global market, and that it is growing faster (12%) than the global average of 4% with a per capita consumption of 1.7 kgs. He emphasized on the achievements of technical textile such as 207 HSN Codes for TT products was notified in January 2019, 92 TT applications identified for mandatory use across 9 different User Ministries (72 have been mandated), 364 Indian Standards are existing & 100+ are under development, new courses prepared under Skill Development. He mainly explained the Opportunities & Challenges of using Bamboo Fibres & Pineapple Fibres in technical textiles. Advantages of both fibres are Low cost, Ease of decomposability; Eco-friendly & Do not create any environmental pollution. Bamboo fibres can be used for Medical &

Sanitary i.e. Bandage, mask, surgical cloths, sanitary towel, gauze mask, absorbent pads, and food packing. Key Applications of Pineapple fibres are Non-woven mats, handmade products and Composites- can be 100% or blended with other

Natural/Synthetic fibres with polymers. Natural fibres/ Yarns- especially Bamboo, Pineapple, Silk, etc. have huge potential in technical textile applications.

Technotex 2021 held on 17th - 19th March 2021

Ministry of Textiles (MOT) in association with the Federation of Indian Chambers of Commerce and Industry (FICCI), supported by Indian Technical Textile Association (ITTA) organized the 9th Edition of the series i.e., **“TECHNOTEX 2021”** from 17th - 19th March 2021. The event attracts the participation of all major stakeholders of the Technical Textile sector as well as institutional buyers from Army, Navy, Air Force, CISF, CRPF, Paramilitary Forces, Police, Hospitals, BRO, Agriculture Institutions, CPWD, PWD, Municipality's, Sports Institution, and Others.

ITTA has mobilized its member to participate in the exhibition and following members such as Prashant Gamatex Pvt. Ltd. and Pashupati Polytex Pvt. Ltd. More than 100 delegates visited the ITTA members' stalls and shown interest in different products that are displayed online by members.

ITTA had also participated in the Technotex 2021. Number of delegates visited the stall, enquired about activities of ITTA, future conference and exhibition and showed interest to become a member.

Meeting of BIS Sectional Committee on Technical Textiles for Agro-Tech (TXD 35)

The 15th Meeting of Technical Textiles for Agro-Tech Sectional Committee, TXD 35 was held through audio-video conferencing on 5th April 2021 under the Chairmanship of Dr. U.K. Gangopadhyay. As the member of committee, Dr. Anup Rakshit, ED, and Ms. Ruchita Gupta, Assistant Manager (Technical), ITTA attended the meeting.

crop cover fabric, HDPE laminated woven lay flat tube for rain irrigation, Flexible water storage tank for agriculture and horticulture, Anti Hail nets, Bird protection nets & Laminated woven orchard protection covers (including grape covers) were issued under wide circulation..

Highlights of the key points discussed & decided in the meeting-

1. Draft Standards on PP spun bonded non-woven

2. Revised Preliminary draft to be prepared on Tri-axial braided jute sapling bags.

PLI Scheme for Textile Almost Ready: Smt. Irani

The Textile Ministry is working towards reducing the industry's dependence on imported machine tools and is reaching out to engineering organisations to step in to meet the gap in domestic machinery production and demand, Textiles Minister Smt. Smriti Irani has said.

Smt. Irani said the production-linked incentive (PLI) scheme for the textile industry was almost ready but the National Textile Policy was taking time as labour and agriculture reforms were earlier being awaited and now the policy needed to strike a balance between government's allocation of resources and the industry's preparedness to take that allocation and convert it into opportunity.

The challenge for the textile industry in India was that most of the required machine tools were imported, Smt. Irani said. The Textiles Ministry, under the guidance of Principal Scientific Advisor, K Vijay Raghavan, had reached out to IITs across the country, particularly Chennai, to highlight to them what the machinery needs of the industry were. "We

are hoping that we can encourage more and more engineering institutions to come forward," she added.

Another challenge facing the sector was that machine tool making did not fall within the Textile Ministry administratively, Smt. Irani said. "Irrespective of administrative mandate, we as a government will ensure that we will converge efforts to ensure that those machines are made in India," she said.

On the PLI scheme for the textile industry, we have done much of our groundwork and the scheme is almost ready," she said. The objective of the scheme is to create global champions in MMF apparel and Technical Textiles by providing incentive from 3% to 15% on stipulated incremental turnover for five years.

[Source - <https://www.thehindubusinessline.com/economy/policy/pli-scheme-for-textile-almost-ready-irani/article34271939.ece>]

Uniform rate card for testing facilities for industry, TUFs like scheme for MSMEs

Commerce and Industry Ministry, Shri, Piyush Goyal asked the Bureau of Indian Standards, the Quality Council of India and private sector to create a schedule of testing and certification charges for industry, similar to the rate card in Ayushman Bharat. He also said the railways will be the first large organisation to dovetail all their standards with BIS in a move towards 'one nation one standard'.

"Focus on clusters and ensure that the cost of testing never becomes a detriment to conform to quality and getting certification," Shri. Goyal said at a Workshop on Easing Compliance of BIS Certifications on 3rd March 2021. He also holds the charge of ministry of commerce, railways and consumer affairs, also asked the Department for Promotion of Industry and Internal Trade (DPIIT) to consider for the micro,

small and medium enterprises a Technology Upgradation Fund Scheme (TUFS) kind of scheme that textiles sector has, to help MSMEs upgrade their quality.

“Can we give some interest subvention or some credit guarantee or some support to help MSMEs upgrade and put in technology to meet international quality standards,” Shri Goyal said. He also suggested BIS to create sectoral experts on standards who can handhold industry but should not be allowed to fill up the forms or do the process of certification.

“They should not become conduits for certification,” he said, adding that the country has to move from

Two mega textile parks to come up in Gujarat

In a major boost to the textile industry and to enable forward and backward integration in the sector, the Government of Gujarat has announced establishment of two mega textile parks during the budget presentation in Gandhinagar on 3rd March 2021. These parks will be set up as part of the Union Budget announcement, of setting up seven mega textile parks. Industry players feel the move will go a long way in making the industry globally competitive.

Mega Investment Textile Parks will make the industry more competitive at a global level and this will not just boost exports but at the back-end, it will also help generate more employment. At the same time, a single cluster will definitely help bring in more investments in the textile sector.

NIFT will introduce technical textiles as an academic subject

National Institute of Fashion Technology (NIFT) will work towards introducing technical textiles as an academic subject in the near future, Union Textiles Minister Smt. Smriti Irani said at the first convocation of NIFT Srinagar.

Sharing this, Union Minister of Textiles Smt. Smriti Irani said that the field of technical textiles, which involves production and design of textiles for use in industries other than apparel and decoration, is going to be the next big thing in the future. Textile Ministry is making efforts to utilise its potential to the fullest.

Smt. Irani said that the first batch of NIFT Srinagar

the concept of standard compliance to standard consciousness by following the QUICK model-quality, uniformity (through one nation one standard), international mindset, conformity to standards, and knowledge sharing. He also said that the BIS is working on reducing the charges for MSMEs, startups and women entrepreneurs particularly in the initial phase of business.

[Source - <https://economictimes.indiatimes.com/news/economy/policy/piyush-goyal-proposes-uniform-rate-card-for-testing-facilities-for-industry-tufs-like-scheme-for-msmes/articleshow/81313036.cms>]

This will give an impetus to MSMEs in the textile sector, which is the highest employment generator after agriculture. It will help ancillary units in textiles in a big way. Moreover, the plug-and-play model for the park will aid employment generation and also give an ecosystem to exporters and domestic manufacturers.

Industry stakeholders also said that the state government's announcement on the ₹1,500 crore outlays for providing subsidy to the industries under the textile policy will also go a long way in boosting competitiveness of the domestic manufacturers.

[Source-<https://timesofindia.indiatimes.com/city/ahmedabad/two-mega-textile-parks-to-come-up-in-gujarat/articleshow/81318708.cms>]

has added a golden page in the 35-year-old history of the institution. She inspired the students to be prepared for whatever life has to offer and expressed faith that with the training imparted to them at NIFT, they would be equipped to deal with any tests and hardships that may come their way.

The minister said that the government of Jammu and Kashmir has announced a package of ₹30,000 crore as part of the J&K Industrial Policy and urged upon the students to put in their best efforts to reap benefit from it.

[Source-<https://in.apparelresources.com/business-news/manufacturing/nift-will-introduce-technical-textiles-academic-subject/>]

Indian Manufacturer Kusumgar enters into Outdoor Fabrics with TAF



Kusumgar Corporates, a leader in the Indian technical textiles industry, has entered into an agreement with Thai Acrylic Fibre Co Ltd (TAF) of Aditya Birla Group to manufacture outdoor fabrics in India with Durashine fibre. Durashine is a superior quality solution dyed acrylic fibre from TAF and is suitable for various outdoor applications.

According to TAF, Durashine fibre can be applied to awnings, outdoor furniture, carpets and marine exterior etc. Colour brilliancy, durability and performance characteristics of fabrics made with Durashine remain unchanged year after year.

"We are very excited about the new outdoor fabric business and our collaboration with TAF. The global demand for outdoor textiles is growing significantly especially in awnings, outdoor furniture including hospitality and construction segments," Mr. Siddharth Kusumgar, managing director of Kusumgar Corporates, said.

[Source-<https://www.fibre2fashion.com/news/press-release-news/indian-manufacturer-kusumgar-enters-into-outdoor-fabrics-with-taf-272859-newsdetails.htm>]

Govt makes airbag mandatory for front passenger seat in vehicles

The Government on 5th March 2021 said it has made airbag mandatory for passenger in the front seat of a vehicle. A gazette notification regarding mandatory provision of an airbag was issued, the Ministry of Road Transport and Highways (MoRTH) said.

"Ministry has issued Gazette notification regarding mandatory provision of an airbag for passenger seated on front seat of a vehicle, next to driver. This has been mandated as an important safety feature & is also based on suggestions of Supreme Court Committee on Road Safety," it said.

The ministry further said that it has been mandated that the vehicles manufactured on and after the first day of April 2021, in the case of new models, and 31st day of August, 2021, in the case of existing models, shall be fitted with airbag for the person occupying the front seat, other than



the driver. The step aims at improving passenger safety in case of accident.

[Source-<https://economictimes.indiatimes.com/industry/auto/auto-news/govt-makes-airbag-mandatory-for-front-passenger-seat-in-vehicles/articleshow/81354131.cms>]

MEDITECH - Absorbent Underwear, Antibacterial Gel Bandage, Biodegradable Medical Fabric & New film Nonwoven Laminate

Eco-friendly Absorbent Textile



New Zealand based Technology Company Confitex has developed an eco-friendly absorbent textile, providing a discreet, effective and sustainable alternative to single-use pads and liners. The new textile is unique since it is fully waterproof without the use of a layer of PU plastic, which is difficult to break down. It has been used in absorbent underwear for men and women.

The new textile has been invented by Confitex founder Frantisek Mr. Riha-Scott. "I originally wanted to create high-performance absorbent sports underwear so athletes didn't need to stop for bathroom breaks during long races. But he quickly realised that reusable leakproof underwear had a much wider application - it would also be life-changing for the one in three women and one in five men who live with light-to-medium urinary incontinence.

Riha-Scott's research demonstrated that the layer of polyurethane (PU) plastic usually used in waterproof fabrics isn't fit for purpose - not only because it takes centuries to break down in landfill, but because it can't be stitched, heat-sealed, moulded or tumble-dried and it is not breathable when worn.

Drawing on his textile design training and extensive research into microscopic textile technology, he created and patented the world's

first and only fully waterproof fabric that doesn't rely on a layer of PU plastic for its efficacy, and used it in a range of absorbent underwear for men and women. He launched the Confitex label at New Zealand Fashion Week - tackling the taboos around bladder leakage head-on and making international headlines as the world's first fashionable range of washable incontinence underwear.

International standards laboratory UL has independently tested Confitex's products, verifying that the textile created by him is at the forefront of high-performance absorbent textile technology. "We know that our textile technology is superior because our underwear and nursing pads have been independently tested against other leading washable brands, and have come out on top for absorbency per square inch with the least bulk," says Mr. Riha-Scott. "That sounds like a technicality, but it makes a huge difference to the comfort and confidence people experience when they use our products."

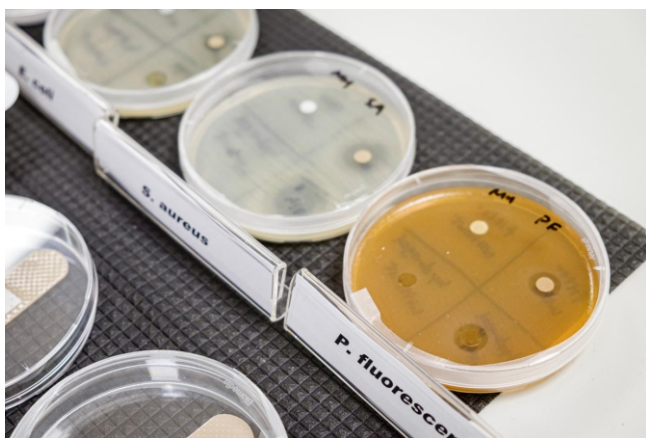
[Source-<https://www.prnewswire.com/news-releases/confitex-reveals-the-secret-sustainable-textile-technology-thats-changing-lives-301260332.html#:~:text=AUCKLAND%2C%20New%20Zealand%2C%20April%206,at%20www.confite.com.>]

Antibacterial gel bandage using durian husk

Food scientists from Nanyang Technological University in Singapore (NTU Singapore) have made an antibacterial gel bandage using the discarded husks of the popular durian tropical fruit.

By extracting high-quality cellulose from the durian husks and combining it with glycerol - a waste by-product from the biodiesel and soap industry - NTU scientists created a soft gel, similar to silicon sheets, which can be cut into bandages of various shapes and sizes. They then added the organic molecules produced from baker's yeast known as natural yeast phenolics, making the bandage deadly to bacteria.

Conventional hydrogel patches are commonly available at pharmacies, usually used to cover wounds from surgery to minimise the formation of excessive scar tissue, resulting in a softer and flatter scar. The patch keeps the skin hydrated instead of drying up when conventional band-aid or gauze bandages are used.



Scientists explained that conventional hydrogel patches on the market are made from synthetic materials such as polymers like polymethacrylate and polyvinylpyrrolidone. Those with antimicrobial properties also use metallic compounds such as

silver or copper ions. Such synthetic materials approved for use in biomedical applications are more costly compared to the new hydrogel made from natural waste materials.

With the growing threat of antibiotic-resistant superbugs, the world will need multiple alternative ways to prevent infections. An effective way to protect open wounds is with antimicrobial bandages that are biocompatible and safe for prolonged use by humans. This is especially important for diabetic patients suffering from chronic wounds. By using waste products which are currently discarded in large quantities - durian husks and glycerol - they can turn waste into a valuable biomedical resource that can enhance the speedy recovery of wounds and reduce the chance of infections. Being non-toxic and biodegradable, the organic gel bandage is also expected to have a smaller environmental footprint than conventional synthetic bandages.

The clinical advantage of the new hydrogel bandage is that the natural yeast phenolics embedded will help to prevent the growth of bacteria such as Gram-negative *E. coli* and Gram-positive *S. aureus*. and the subsequent formation of biofilms (a layer of slime that can lead to antimicrobial resistance within a bacteria colony). As a proof of concept, the antimicrobial hydrogels were tested as a wound dressing on animal skin and showed good antimicrobial effects for up to 48 hours. The new proof-of-concept hydrogel bandage is applied by simply laying it across the wound, just as with existing commercially available silicone gel sheets for wound dressing.

[Source - <https://www.sciencedaily.com/releases/2021/03/210325101159.htm>]

Developed Biodegradable Fabric for Disposable Medical, Isolation Gowns



US based Precision Textiles, a leading supplier of coated fabrics, nonwovens and laminations for the bedding, automotive and healthcare industries, is expanding its commitment to the development of more sustainable products with its newly launched EcoGuard material. The domestically produced, eco-friendly fabric was developed for use in personal protective equipment (PPE), specifically disposable medical isolation gowns. This material contains an additive that helps it biodegrade up to 99% more quickly than typical polypropylene gown material.

“EcoGuard adheres to our corporate mission to manufacture products that pose low environmental risk,” says Mr. Scott Tesser, president of Precision Textiles. “Isolation gowns produced with polypropylene materials can take over 600 years to biodegrade in a landfill, leading to the emission of carbon dioxide and other greenhouse gases. The additive in our EcoGuard material accelerates the biodegradation process to approximately six years, reducing the CO2 footprint that is harmful to the environment.

“Cost-wise, gowns made with EcoGuard make a great deal of sense. Not only are they better for the

planet, but they are also in the same price range as the polypropylene gowns we make in our manufacturing facility.” The additive in the EcoGuard material releases enzymes that allow the gowns to serve as food for microbes to consume, thus dramatically speeding up the biodegradation process. These gowns are easy to dispose of and recycle after use, which further helps the environment by reducing the waste mass in landfills.



Mr. Tesser adds, “I am surprised that no one has been talking about the issue of polypropylene in PPE, especially at a time when COVID-19 has created a tremendous need for PPE for those on the front line providing medical care. These gowns are disposable, so they go right into landfills, making their biodegradation an important issue, especially since eco-consciousness among consumers continues to be on the rise.”

[Source - <https://www.textileworld.com/textile-world/nonwovens-technical-textiles/2021/04/precision-textiles-develops-biodegradable-fabric-for-disposable-medical-isolation-gowns/>]

A New Solution for Defense against Infectious Agents

The growing demand for protective garments against pathogens, essential in types of work in which the organisms cannot be contained, continuously exposing the worker to the risk of infection by biological agents, has strengthened Italy based Texol's commitment to developing solutions of high level raw materials for the production of that kind of clothing.

As an innovative manufacturer of elastic and perforated films for the hygiene, medical and health protection industry, Texol's R&D organization has designed Gowfense, a new film-nonwoven laminate for disposable gowns, caps, shoe covers and clean air suits, used, for instance, as medical devices, for patients and clinical staff or in situations in which the agents to which workers are exposed may not be

known, like sewage work, waste treatment, care of animals infected with zoonotic agents, emergency cleaning, treatment of hospital waste at risk, etc..

Gowfense is a 54 gsm coextruded laminate of film and nonwoven spun bond. It is compliance with the international standards of protection against infectious agents and has distinctive properties such as antistaticity, no glossy, liquid impermeability, glueless, odorless, softness. It also

grants protection against liquid chemicals including corresponding small splashes, being compliance with the international requirements for ergonomics, innocuousness, size designation and aging.

[Source - https://www.nonwovens-industry.com/contents/view_breaking-news/2021-03-15/a-new-solution-for-defense-against-infectious-agents/15304]

RAW MATERIAL - Nanofiber filament



Teijin Frontier Co., Ltd. based in Japan announced that it has developed technology to mass produce a new version of its Nanofront® ultra-fine polyester, which the company believes is the world's first nanofiber to be made from recycled polyester raw materials. Moreover, the new technology will enable Teijin Frontier to produce all of its polyester fiber products with recycled raw materials.



Sample sock made with the new Nanofront

Teijin Frontier expects filament and textiles made with this new version of Nanofront® made from recycled polyester materials to replace conventional Nanofront® made from petroleum-derived raw materials in a wide range of fields, including sports wear,

functional clothing, industrial uniforms and more.

The demand for recycling raw materials is rapidly increasing, but it has been difficult to mass produce

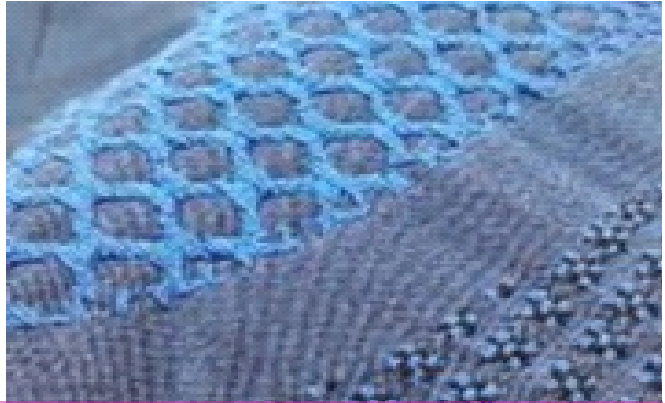
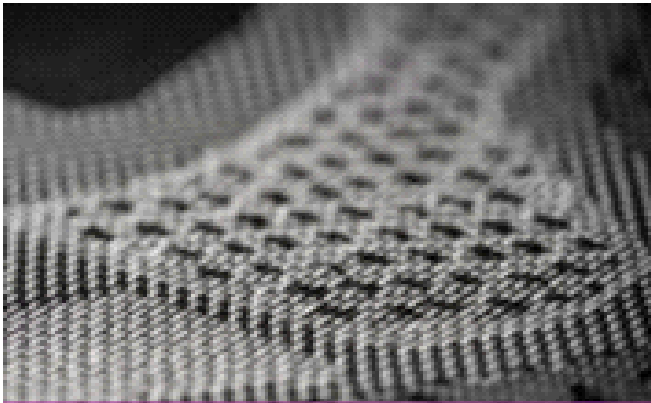
ultra-fine fibers made from recycled polyester due to needs for high-level polymer control and spinning.

Teijin Frontier has now developed new polymer-control and spinning techniques for Nanofront® made from recycled polyester materials. The key was the company's proprietary "sea-island" composite-fiber processing technology, which distributes two types of polymers into the fiber's "sea" and "island" parts, then dissolves and removes the "sea" part using an alkaline, etc. treatment, and finally extracts only the "island" part as raw yarn.

The new fibre can create highly absorbent structures since its capillarity enhances water absorption and diffusion. Its grip properties result from nano-sized irregularities on the fibre surface which creates friction. In filter materials, its fine pores and high void structure also improve collectability and in precision structures it can enhance impermeability and heat shielding. Teijin Frontier stresses that while made from recycled polyester raw materials, the fibre maintains all conventional quality and functionality.

[Source - <https://www.innovationintextiles.com/fibres-yarns-fabrics/teijin-claims-recycled-nanofibre-first/>]

TECHNOLOGY - Unique Weaving technology



ProWeave - A unique jacquard weaving technology

Texon, Italy revealed details of ProWeave - a unique, patented, jacquard weaving technology, which makes it possible to seamlessly integrate functional and design weaving into a single sheet of material. Reimagining fabrics for the footwear, apparel, fashion and luxury goods industries, ProWeave by Texon opens up infinite new design possibilities - enabling the production of continuous woven substrates with the zonal features product designers want, exactly where they want them.

ProWeave totally transforms the way performance fabrics are made and how they look, feel and function. Creating different elasticity, tenacity and abrasion zones within the same weave. Ground-breaking in its approach, this innovative technology effortlessly blends diverse yarn thicknesses, weights and fabric references together - creating intricately designed fabrics with distinctive gradient, rib, waffle, colour, stretch, transparency and 3D effects.

Actively aiding the design process, ProWeave is suitable for the production of all kinds of woven footwear and is the ideal solution for clothing, apparel and accessories manufacturers that want to employ novel performance fabrics. ProWeave is set to prove popular in the fast-paced sports and outdoor sector.

ProWeave takes the production of performance fabrics to the next level. This exciting technology can help manufacturers differentiate their designs and unlock significant creative advantage. With the ability to mix together different high tenacity, flame retardant, stretch and TPU coated yarns to create hard-wearing materials, Texon also sees significant opportunities for ProWeave in industrial footwear and safety apparel applications.

[Source-<https://www.texon.com/blog/2021/04/13/texon-reimagines-fabrics-with-proweave-a-major-step-forward-in-woven-technology/>]

MACHINERY - Wet wipes machine

Virus-killing wet wipes machines Rx200 and Mako Clipper

Paper Converting Machine Company (PCMC) in Italy - a division of Barry-Wehmiller and a global supplier of high-performance converting machinery for the tissue, nonwovens, package-printing and bag-converting industries has announced its industry-leading wet wipes folding machines the Rx200 and Mako Clipper are now available with high-content alcohol, measuring as much as 70%.

Previously, PCMC wet wipes machines operated with less than 20% alcohol, producing disinfectant wipes for personal, home, industrial and automotive use. However, the COVID-19 pandemic has created a spike in demand for sanitizing wipes that contain at least 70% alcohol, the key component in killing or deactivating viruses.

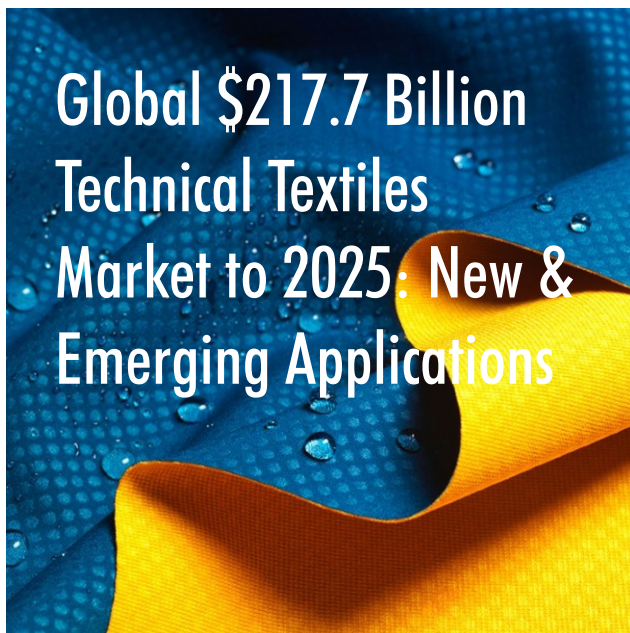
To help manufacturers meet the increased demand, PCMC redesigned its Rx200 and Mako Clipper to safely operate with high-content alcohol. The new designs feature increased air exchange for better ventilation and additional sensors to eliminate the risk of flash points and fires. The machines also include IDS 150/300 integrated dual stackers and a redesigned Mako saw to meet more stringent regulations and higher machine performance expectations.

“We are proud to offer new solutions for our customers that will ultimately put more sanitizing wipes in homes and offices around the world,” said Mr. Laercio Catao, PCMC Nonwovens Sales Director. “We made this possible by tapping into our extensive history working with nonwovens and hazardous materials like solvents in our flexo



printing presses. The result is a machine we are confident produces high-quality sanitizing wet wipes and helps keep operators safe.”

[Source - <https://www.canadianpackaging.com/general/pcmc-adds-virus-killing-wet-wipes-machines-rx200-and-mako-clipper-to-nonwovens-lineup-169015/>]



The global market for Technical Textiles is projected to reach US\$217.7 billion by 2025, driven by the robust growth in construction and infrastructure projects, increasing automobile production, and rising demand from the healthcare sector. Stringent government legislations mandating the use of geosynthetics in infrastructure development projects will continue to provide regulatory driven stability to demand patterns in the market.

Rapid urbanization and industrialization, expanding manufacturing base, rising income levels and increased consumption of manufactured goods represent other macroeconomic factors that bode well for market growth. Continuous development of new and advanced technical textiles especially flexible materials; breakthroughs in polymer and

fiber science; development of newer and more efficient processing technologies; growing clout of nanotechnology in textile innovation and expanding research budgets for textiles, all represent factors vital for shaping future growth in the market.

In the automobile and aircraft industry, the growing pressure to replace steel is driving interest in technical fabrics such as fiber-based composites. In the healthcare industry, wound closure, regenerative medicine and electrical stimulation will offer lucrative growth opportunities for medical grade technical textiles.

Technology development will remain critical to future growth such as breakthroughs in nanofibers and biopolymers and developments in super cellulose featuring super-hydrophobicity and biodegradability benefits. All of these innovations flaunt to potential to expand the addressable market opportunity in a wide range of end-use sectors.

Among the top producers of technical textiles worldwide are India, China, Europe and the Americas. India's traditionally import reliant technical textiles industry is receiving policy led focus on domestic production for import substitution over the medium to long-term period. In China, on the other hand, production of technical textiles is witnessing growth faster than the overall textile industry, while in Europe, Germany continues to lead the technical textiles sector in the region.


In the Americas, technical textiles in the United States is flourishing supported by Trump's pro-

manufacturing agenda and the resulting increase in productivity, flexibility and innovation. Asia-Pacific including China represents the largest market worldwide, led by growing demand for wearable technology; rapid infrastructure development in countries such as China, India and South Korea; and expanding applications in agriculture, automotive, healthcare, defense and protective textiles.

Specifically, demand for geotextiles is supported by rapid infrastructure development, while medical textiles are being strengthened by the era of value based care and quality innovations in healthcare.

Similarly, automotive textiles are driven by the region's lead in smart urban mobility revolution, while agro textiles continue to benefit from Asia's decisive role in the global food chain.

[Source-<https://www.globenewswire.com/news-release/2021/04/13/2208908/0/en/Global-Technical-Textiles-Market-Report-2021-2025-Robust-Growth-in-Construction-and-Infrastructure-Projects-Increasing-Automobile-Production-and-Rising-Demand-From-the-Healthcare-S.html>]



Agro Textiles Market Value Projected To Reach US\$ 13,699.5 Million by 2027

Acumen Research and Consulting, a global provider of market research studies, published a report titled "Agro Textiles Market- Global Industry Analysis, Market Size, Opportunities and Forecast, 2020-2027". The Global Agro Textiles Market is expected to grow at a CAGR of around 5.9% from 2020 to 2027 and reach the market value of over US\$ 13,699.5 Mn by 2027.

The global agro textiles market is estimated to exhibit potential single-digit growth over the forecast period from 2020 to 2027. The increasing need for agricultural produces, seafood, along with the enhanced quality is supporting the market growth. The agro textile sector is making every possible effort to improve the efficiency of crop production by using suitable agro textiles so that better crop yield can be achieved year after year.

Based on product, fishing nets are leading the market with maximum revenue share and are also projected to maintain their dominance over the forecast period from 2020 to 2027. The age-old presence of fishing nets in the market is supporting their global usage and demand. Additionally, technical advancements like automatic installation without manual intervention increased lifespan and

renewable materials are supporting the segmental market value.

Asia Pacific is leading the market with maximum revenue share and also projected to experience the fastest growth with major CAGR (%) during the estimated period from 2020 to 2027. The major developing economies of the region including China and India in terms of economy are supporting the regional market value.

Some of the leading competitors profiled in the global agro textiles market report include B&V Agro Irrigation Co., Beaulieu Technical Textiles, Belton Industries, Inc., Capatex Ltd., Diatex SAS, Hebei Aining Import and Export Co. Ltd., Hy-Tex (U.K.) Ltd., Meyabond Industry & Trading (Beijing) Co. Ltd., Neo Corp International Limited (NCIL), SRF Ltd., Tama, and Zhongshan Hongjun Nonwovens Co. Ltd. The major players are continuously involved in strategic development activities that include mergers and acquisitions, new product development, partnerships, and collaboration to expand their share in the global market.

[Source - <https://www.indianweb2.com/2021/03/agro-textiles-market-value-projected-to.html>]

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FIBERWEB INDIA LIMITED, MAHARASHTRA

Fiberweb (India) Ltd established in 1985 as manufacturing in Blow Moulding, Injection Moulding & Roto Moulding Company and added products garbage and carrier bags and gradually ventured into Technical Textile Spun bond nonwoven fabrics in 1996, a 100% EOU. They have In-house facility for manufacturing stitched garment like medical & industrial gowns, aprons, car covers, etc. and set-up Melt-blown Nonwoven Fabrics plant in December 2017 for making N95 & N99 facemasks and PPE kits. They are also manufacture products i.e. crop covers, shopping bags, furnishing fabrics, filter products, etc. Machineries like RICOFIL- II Spun bond, Melt Blown machine and Conversion DIV. machines.

BANTHIA CONSULTANCY, GUJARAT

Banthia Consultancy is a project consult and provides service in the area of project finance and Government Incentives. Their core expertise's are textile project execution for ATUFS and State Textile Policy of Gujarat and Maharashtra. They also work with industrial association for upliftment of industries through various presentations on government platform.

ITTA PUBLICATIONS

Name of the Publication	Price*	Type of Publication
ITTA Defence Handbook - Indian Technical Textile Products for Defence - A Global Reach	₹750	Handbook
International Conference on "Technology & Machinery Innovations for Technical Textiles" held on 19th January, 2019	₹2000	Seminar Proceedings (CD-ROM)
3 rd Defence-ITTA Joint Exhibition cum Seminar on Technical Textile held on 22 nd & 23 rd May 2017	₹2000	Seminar Proceedings (CD-ROM)
2 nd Defence-ITTA Joint Exhibition cum Seminar on Technical Textile held on 15 th & 16 th June 2016	₹1000	Seminar Proceedings (CD-ROM)
First Indian Navy-ITTA Seminar on Clothing and Footwear held on 7 th & 8 th January 2016	₹1000	Seminar Proceedings (CD-ROM)
Symposium on Medical Textile -Applications & Opportunities held on 14 th July 2015	₹1000	Seminar Proceedings (CD-ROM)
Symposium on Hi Tech Application Areas of Nonwoven held on 30 th Jan 2015	₹1000	Seminar Proceedings (CD-ROM)
Handbook on Geosynthetics case studies of ITTA Members (2013)	₹750	Handbook

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TECHNOTEX 2021 (9th International Exhibition & Conference on Technical Textiles)

[EVENT SUPPORTED BY ITTA]

17-19 March 2021

Web: <https://www.technotexindia.in/>

COMPOSITE-EXPO 2021

30 March-1 April 2021 in Moscow, Russia

Web: <http://www.composite-expo.com>

APRIL 2021

OUTLOOK™ 2021

21-23 April 2021 in Lisbon

Web: <https://www.edana.org/events/outlook/outlook-europe-2021>

MAY 2021

TECHTEXTIL 2021

4-7 May 2021 in Frankfurt, Germany

Web: <https://techtexsil.messefrankfurt.com/frankfurt/en.html>

JUNE 2021

OSH INDIA (South)

03-04 June 2021, Bengaluru, India

Web: <https://www.oshindia.com/south-india/>

7th NONWOVEN TECH ASIA 2021 (International Exhibition & Conference)

04-06 June 2021, Delhi, India

Web: <https://www.nonwoventechasia.com/>

INTERNATIONAL NONWOVENS SYMPOSIUM

09-10 June 2021, Lyon, France

Web: <https://www.edana.org/events/nonwovens-symposium/international-nonwovens-symposium>

ITMA ASIA + CITME 2020

12-16 June 2021 in Shanghai, China

Web: <http://www.itmaasia.com>

35TH INTERNATIONAL TEXTILE MACHINERY (ITM) EXHIBITION

22-26 June 2021 in Istanbul

Web: <https://www.itmexhibition.com/itm2021>

JULY 2021

WORLD OF WIPES (WOW)

12-15 July 2021, Georgia, USA

Web: <https://www.worldofwipes.org>

UPCOMING EVENTS

AUGUST 2021

TECHTEXTIL NORTH AMERICA

23-25 August 2021, North Carolina, USA

Web: <https://techtexsil-north-america.us.messefrankfurt.com>

SEPTEMBER 2021

TECHTEXTIL INDIA

01-03 September 2021, Mumbai, India

Web: <https://techtexsil-india.in.messefrankfurt.com/>

INDEX

7-10 September 2021, Geneva, Switzerland

Web: <http://www.edana.org>

OCTOBER 2021

A+A

26-29 October 2021, Düsseldorf, Germany

Web: <https://www.aplusa-online.com>

NOVEMBER 2021

IFAI EXPO

1-4 November 2021, Tennessee, USA

Web: <http://ifaexpo.com>

HYGIENIX

15-18 November 2021, Arizona, USA

Web: <https://www.hygienix.org>

OSH INDIA 2021

25-26 November 2021, Mumbai, India

Web: <https://www.oshindia.com/mumbai/>

DECEMBER 2021

INDIA ITME 2021

(11th India International Textile Machinery Exhibitions)

8-13 December 2021, Greater Noida

Web: <https://itme2021.india-itme.com>