



**China- Germany for  
Sustainable Solutions with Technical Textiles**  
PERFORMANCE SHOW

15 – 16 September 2011, Beijing, China

Gesamtverband  
textil+mode



CNTAG

IVGT

**CETA**  
CHINA-EUROPE TEXTILE ALLIANCE  
中欧纺织联盟

**CNITA**





## Introduction.

It is a great pleasure for me to lead this delegation to Beijing to participate in the SSTT event. Thirteen top German Technical Textiles companies will present their product portfolio on the Chinese market to find suitable partners for cooperation. We take pride in our unique products that help provide sustainable solutions in almost every application for the industry as well as for the individual human being. State of the art research and development coupled with a continuous innovation effort has made our Technical Textile companies world market leaders. Environment, health, dwindling resources and greater mobility - these are some of the challenges we all face at a global level. Our products can make a significant contribution to meet the targets: Textile reinforced aircrafts can take off using considerably less fuel. Light electric cars can reach levels of distance and comfort to enable a market of size. Other sectors too increasingly rely on textile materials to achieve higher performance: Textile reinforced concrete offers new ways of building lighter and more sustainable. Medical textiles are today indispensable for the patient's well being while research offers new areas of application that go well beyond traditional solutions applied in healthcare. Moreover, Technical Textiles find their way into numerous industrial applications such as high performing and enduring filter systems and conveyor belts. We are here to show what we can do!

China has long become a key market for our industry. Quality, capacity and a flawless supply chain have made the country's textile and clothing companies highly competitive on the global markets. Today, China is Germany's unchallenged number one textile and clothing supplier. At the same time, we observe, with joy, the rapid developments underway, offering sheer inexhaustible prospect in almost every segment of the economy. We are here to partner-up!

The SSTT project also stands for the splendid cooperation between the Confederation of the German Textile and Fashion Industry and the China National Textile and Apparel Council. A cooperation that is based on friendship and trust and which has, for years, helped to create an environment conducive for the textile and clothing industries in both countries. We thank our partner for this friendship and we look forward to continuing this cooperation for a bright future.



Peter Schwartz

Honorary President of the Confederation of the German Textile and Fashion Industry  
Vice President of the European Apparel and Textile Confederation

## Members of the German delegation.



Peter Schwartz  
Honorary President, t+m



Dr. Wolf-Rüdiger Baumann  
Director General, t+m



Sven Eriskat  
Intl Relations & New Markets, t+m



Dr. Klaus Jansen  
Director General, FKT



Prof. Dr. Chokri Cherif  
Head of Institute, TU Dresden



Werner Zirnzak  
Vice Director General, IVGT

## Introduction of the organisations.

***Gesamtverband textil+mode (t+m):*** The Confederation of the German Textile and Fashion Industry represents the industry's interests at economic, social as well as at tariff policy level. t+m aims at safeguarding and promoting the innovative capacity of German textile and clothing companies world-wide while demonstrating the appeal of Germany for the industry both at home and abroad. The organisation of international events and in particular the matching of German companies with potential partners in the given target region is a central element of the work the association performs on behalf of its members.

***Forschungskuratorium Textil (FKT):*** The Textile Research Council is the main hub for textile related research in Germany. As such, FKT administers significant funding for textile research projects every year. A focus is placed on the transfer of technology into commercially viable applications and products, thus building the bridge between research and industry. The close cooperation with other industrial sectors is as important as the incorporation of the final user into the research process.

***IVGT:*** is the German textile trade association for manufacturers and suppliers of textile raw materials, yarns, fabrics, household textiles and technical textiles. The members include over 170 companies in the textile industry and in the field of industrial trading in textile raw materials and textiles. 60% of the German textile industry with an annual turnover of approx. 6 billion Euro is represented by IVGT. It represents the interests of our members in all technical and economic policy issues in Germany, the European Union and vis-à-vis institutions in third countries.

***Institute of Textile Machinery and High Performance Material Technology at Technische Universität Dresden (TU Dresden):*** This Institute is the only university research centre in the area of textile and readymade garment technology that is composed of two professorships. The Institute's main functions focus on providing a high-quality curriculum to students and research activity, both concentrating on the following objectives: Offering excellence in education by giving a solid scientific foundation and up-to-date practical experience; conducting fundamental research activity and industry-oriented projects; continually expanding cooperation with research institutes and industry partners; transferring research results into practical solutions.

***CETA:*** The China-Europe Textile Alliance was launched on 1 February 2005 as a joint venture between t+m and other European textile and clothing associations. CETA is the main entry point for textile and clothing companies on the Chinese market. CETA provides a wide range of support services for member companies with sales and sourcing projects in China.

## Programme: 15 September 2011

- 09:00 Welcome Notes**  
Xu Kunyan, Vice President, China National Textile and Apparel Council (CNTAC)  
Peter Schwartz, Honorary President of the Confederation of the German Textile and Fashion Industry (t+m) and  
Vice President of the European Apparel and Textile Confederation (EURATEX)  
Ministry of Industry and Information Technology of the P. R. China  
German Federal Ministry of Economics and Technology (BMWI)
- 09:30 Presentation 1 – The Application of High Performance Fibres in Industrial Textiles**  
Zhang Jian Chun, Director of The Quartermaster Equipment Research Institute of the General Logistics Department of the CPLA (Chinese People's Liberation Army)
- 10:00 Presentation 2 – Function Textiles Based on Lightweight Construction in Multi Material Design**  
Prof. Chokri Cherif, Head of Institute and Chair of Textile Technology, Institute of Textile Machinery and High Performance Material Technology, Technical University of Dresden, Germany
- 10:30 Presentation 3 – Technical Textiles and Mobility**  
VOLKSWAGEN (CHINA) INVESTMENT CO. LTD
- 11:00 Coffee Break**
- 11:30 Presentation 4 – Market Demand and Prospects of Medical and Hygiene Textiles**  
Li Jianquan, Board Chairman of Winner Group
- 12:00 Presentation 5 – Industrial Research for Textiles: Closing the Gap**  
Dr. Klaus Jansen, Head of the German Textile Research Council
- 12:30 Closing Remarks**  
Wang Tiankai, China National Textile and Apparel Council (CNTAC)  
Dr. Wolf-Rüdiger Baumann, Director General of the Confederation of the German Textile and Fashion Industry (t+m)
- As of 13:00 Lunch, Performance Show and B2B Meetings**  
Buffet lunch / Visits of the company presentations  
Tailor-made B2B meetings between German and Chinese companies
- 18:30 Dinner with all participants at the event venue**

**Introduction of  
the German companies**

## BWF Protec

### The Company

BWF Protec is a branch of the BWF Group with its headquarters in Offingen/Germany. BWF Protec with its site in Hof/Germany and production facilities at BWF Wuxi/China produces and develops technical needle felts as yard goods needlona®, round needled specialties and cut parts for various fields of application.



### Technology

Technical needle felts needlona® as yard goods are made from various synthetic fibers, such as **polyester / polypropylene / meta-aramid / para-aramid / preoxidized PAN / PTFE and others**. We can also offer different finishings (flame-retardant, oil and water repellent, calendaring, singeing, etc.) Endless round needled felt rollers, rings and belts are also made from synthetic fibers as mentioned above.

### Work and Heat Protection

For heat and safety applications we offer technical needle felts needlona® mostly made of para-aramid fibres. The advantages are **resistance against heat and cold / cut and break resistance / stab resistance / non-flammable / isolation**. These special felts are mainly used in protective clothing, gloves, shoes, etc.

### Products

**Fireblocker Felts:** For the railway and aviation industry we developed our quality BWF FireGuard® as a fireblocker used in seats, ceiling and wall linings. Made of high-tech fibers, the felt offers excellent flame and heat resistance as well as superior low smoke and low toxicity emission in case of fire. Our fireblocker felt BWF FireGuard® complies with fire protection classes F2 and M1 acc. to NF F16-101.

**Glass Industry:** BWF EXTRU-LINETM needle felt products offer innovative transport solutions for the glass industry. Needle felt rollers, endless felt bands and cut parts such as stripes and rings offer high wear resistance and maximum protection of the glass parts.

Our R&D department perfects our abilities with lab analyses and manufacturing of prototypes. With our extensive product range we offer individual and innovative solutions on the highest quality level to our customers. We are certified according to ISO 9001:2008 and 14001:2004.

### Contact

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## BWF Feltec

### **The Company**

BWF Feltec is a company of BWF Group, with its headquarter in Offingen/Bavaria. More than 1,300 employees worldwide work for our company. We are the leading manufacturer of textile filter media for industrial dedusting, technical felts, woolfelts and plastic profiles. BWF Feltec is the specialist for traditional wool felt and a wide variety of natural as well as synthetic needle felts. With many years of experience and always new creative developments we set standards in the fields of:



### ***WOOL FELTS AND NEEDLE FELTS FOR TECHNICAL APPLICATIONS OFFITEC®***

Products are technical wool felts and needle felts with differing material properties. Our felts have numerous uses and are available in different qualities (fiber mix, density, thickness). On request, all OFFITEC® - products can be treated with various finishes dependent upon the intended usage. We manufacture gaskets, insulation materials, soles, upholstery, pressed parts, cut-outs, wipers, felt gliders, guiding belts and much more for the following industries: Automotive- und Automotive Accessories Industry, Electronics, Office Machines and Office, Supplies Production, Orthopaedic and Shoe Industry, Furniture Industry, Packaging, Machine and Tooling, Electrical and Optical Industries, Wood-processing Industry, Wire Production Industry, Music Industry.

### ***COLOURED AND DECORATIVE FELTS***

Whether jade green or lemon yellow - we can provide you with the colour of your wish: either from our extensive colour range or created for you personally in our colour laboratory. High density, coloured or mottled, in various thicknesses and/or with different finishes, BWF coloured felts are sometimes real works of art. From initial production through the final disposal, they are environmentally friendly. The raw materials we use are biodegradable wool and viscose. Whether as bags, cell phone holders, decorative items, placemats, mats, coasters, bowls, key chains, shoes and carpets - BWF coloured felts enrich daily life!

### ***UNDER-COLLAR FELTS***

Readymade under-collar material:

- OFFITEX® is a high quality two-sided under-collar material made of approximately 70% wool and 30% rayon and in its product group offers different types of articles, adapted to the needs of the customer. For each cut direction, warp or weft, there are several versions. OFFITEX® is available with or without scrim. Upon request, OFFITEX® can also be printed.
- OFFINA is a finished polyester under-collar felt and especially popular by cost-conscious users. The material is very easy-care, has smooth edges and can be washed

## BWF Feltec

with temperatures up to 40°C. OFFINA is also available in printed versions.

- MAVICOL is made of original Irish linen or cotton pique under-collar material and is produced and sold exclusively by our subsidiary BWF Facol in Italy.

Under-collar materials for further processing:

- UCK / UBC: These thinner felts with high wool content are ideally suited for fusing.

We stand for superior product quality. This starts with the selection and purchase of our raw materials and is guaranteed by excellent quality management. Our ISO- and ECO-Certifications are, of course, always up to date. Our internal dual quality management system ensures consistent quality, also taking into account environmental guidelines. As a complementary and independent body, the ECO Environmental Institute regularly checks our quality standard.

Besides the extensive standard product range we also provide customized product solutions. With facilities at institute level, the highly skilled team of our research and development department is involved in basic research, product development and methods of analysis. The combination of expertise and advanced laboratory techniques and equipment allow us to be always up to date with science and technology. Thus, we strengthen the success of our customers.

Our latest highlights:

- New extended colour palette for our designers felts
- „Smart Felts“ – with thermo-regulating or anti-bacterial properties
- Woolfelts for acoustic panels
- Woolfelts for emission reduction

To learn more about BWF Feltec, visit us at our booth.

### Contact

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# Caplast Kunststoffverarbeitungs GmbH

## The Company

CaPlast has specialized in various high-grade substrate coatings since 1967. Part of the well-established, globally active Mehler Group, CaPlast has strong financial assets as well as market-based and application-related expertise which is well known around the world. This guarantees the constant development of the high-tech systems as well as proximity to the clients of CaPlast. Having installed the first extrusion line in 1967, CaPlast today operates several extrusion- and co-extrusion coating lines (width up to 3.30 m) as well as printing and packaging lines in Germany and Slovakia. With a production capacity of over 300 million m<sup>2</sup>, CaPlast employs more than 90 qualified workers and has a sales volume of over € 30 million p.a.



CaPlast Kunststoffverarbeitungs GmbH offers various high-end coating solutions for the construction, automotive, agricultural and packaging sector. CaPlast's construction products are mainly used in the insulating, roofing and interior fittings industry. The pursuit of finding new solutions, e.g. the use of high-tech coating materials, nanotechnology, renewable layers, customer related USP's has made CaPlast a market leading supplier for energy efficient solutions in Europe.

## Products

- Broad range of underlayers (open and not open to diffusion) for pitched roofs with unique integrated self adhesive application ;
- Unique membranes for very low roof angles which can be welded (hot & cold)
- Paper, non-woven or alum. based air and vapor barriers with fixed or flexible vapor permeability
- Long term UV-resistant membranes for facades.
- Vapor barriers for screed / flooring and window applications.

Since 1968, the brand CaPlast has become renowned for its quality and reliability in the construction sector. In the dominated field of private label products, CaPlast has become a leading supplier and R&D partner for the top-producers of insulation materials, roof tiles and gypsum products as well as for wholesalers.

## Contact

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## Guardiantex GmbH

### The Company

According to the principle “your safety is our priority”, Guardiantex is specialized in high-tech cloth for body protection equipment. The products are used by state and civil security services. ISO certified production and close relationships with end users guarantee the highest quality. Constant research and development as well as intensive partnership with certified independent test laboratories optimize products' benefits for the customers.



### Technology

Guardiantex's core competency provides customers with textile solutions for almost all protection applications out of one source. The company offers a wide range of finished products in close cooperation with associated firms like their sister company SR Webatex in Bayreuth who is the exclusive greige supplier of Guardiantex.

Guardiantex's testing laboratory is fully integrated in Bayreuth and performs in-production tests and final tests as well as customer-specified tests. The company also works closely with recognised testing institutes throughout the European Union. Guardiantex holds an ISO 9001:2011 (Quality Management) certificate and the EN ISO 14001:2011 certificate (Environmental Management). Almost the entire production range of Guardiantex, especially PU-coated fabrics, is certified with the Oeko-Tex® Standard 100 which guarantees the production of non-harmful textiles and the limit compliance regarding the use of hazardous substances.

### Products

The core business of Guardiantex is camouflage prints for the military with IR (infrared) remission. The following countries have already been supplied with specialized camouflage textiles: Germany, Denmark, Norway, Sweden, France, Morocco, Belgium, Lithuania and Italy. Tailor-made production for other countries is possible.

Beyond the camouflage, Guardiantex offers fabric for uniforms, protective clothing, task force and peacekeeping clothes. The company uses materials like polyamide 6.6 Cordura®, polyester DIN EN 471 high visibility material, viscose, polyester/cotton DIN 13567 anti-rip/tear material, polyester/carbon and polyamide/carbon - DIN EN 1149 antistatic material for rucksacks, clothing, parachutes, tents, medical, military or airport crew clothing, bullet-proof vests and other applications.

### Contact

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# Nicolaus Weber GmbH & Co. KG

## The Company

On March 1st 1875 Mr Nicolaus Weber (1824–1907) founded Nicolaus Weber GmbH & Co. KG. The company has been family-owned through five generations and today is under the leadership of Mr Claus-Michael Weber.



For over 125 years, the name of Nicolaus Weber has been synonymous with excellence in textiles. Continuous modernisation has enabled the company to meet the high expectations of its customers. The guiding principle was and remains thinking individual requirements through in every detail, in order to design and produce fabrics with the appropriate characteristics.

In this now highly-specialized textile company a wide variety of fabrics is produced which fulfil the highest demands. These include sterile cloth used for surgical instruments in the medical sector, as well as conveyor belts in the agricultural industry and fuel filters for the aerospace industry.

In addition, Nicolaus Weber's textiles find their way into areas like environmental protection, food, furnishings, clothing, the electrical and automotive industries, work safety, refineries, engineering and sports and leisure. New applications emerge all the time.

## Products

Nicolaus Weber produces fabrics using mainly polyester, polypropylene and polyamide yarns, but also high-tech yarns like PTFE, (para-)aramide, Kevlar® and polyester/stainless-steel blends, as well as yarns in the natural fibres : cotton and linen. If required, special coatings are applied such as PVC, silicone, SBR-latex, etc. Examples are bellows or cuffs, which are used in the construction industry.

By virtue of its experience, expertise and readiness to innovate, Nicolaus Weber GmbH & Co. KG now counts world-class companies such as BASF, Bayer, Goodyear and Mercedes Benz among its clients.

## Contact

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## Ploucquet GmbH

### The Company

The Sympatex/Ploucquet Group has been a competent and reliable supplier of textile solutions since 1806. As one of Europe's leading providers, Ploucquet develops, produces and sells innovative and ecologically responsible textiles on a global scale for apparel as well as technical applications (Tection).

The **TECTION** contract processing division provides a high-end service focused on innovation, technological advancement and quality made in Germany. In the technical textiles, composite materials and protective garment segments, Ploucquet provides innovative, customized solutions featuring high-end laminating and coating techniques as well as functional finishing.

### Products

It successfully serves the medical, automotive, aerospace, transport and canalization sectors with an array of product components for parachutes, printer ribbons, abrasives, plaster adhesives-membranes, rubber gaiters and bionic ceramic coatings, to name but a few. The ongoing development of innovative finishing technologies and applications provides for the continual creation of new areas of application.

Ploucquet improves performance with a spectrum of features such as grip modifications, texture optimization, heat and fire protection, hydrophobic/hydrophilic gear, insect protection, UV absorption and anti-static, anti-bacterial and odor-reducing functions.

Furthermore Ploucquet is committed to sustainable added value. The machinery in Zittau guarantees „green“ and ecologically responsible manufacturing compliant with the DIN-EN-ISO 9001:2008 certification. Every year, all of the products are given the latest Oeko-TEX Standard 100 certification.

### Contact

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# PolymerTechnik Ortrand GmbH

## The Company

The PolymerTechnik Ortrand GmbH is a mid-sized and ecology-minded company whose roots go back to the year 1927. We are focusing on the development, production and distribution of elastomer coated fabrics and continuous rubber sheets. Complemented and completed by the comprehensive know-how of more than 100 employees, 10% of them are working in the Research and Development Department, the PolymerTechnik Ortrand guarantees individual system solutions according to particular requirements and applications of our customers. At our company you never get a semi-finished product ready-made, but always individual solutions particularly developed for you. We not only have a cooperative partnership in our own company, but also with our customers, which is very important for us. The PolymerTechnik Ortrand is proud to say that we are able to work at our modern machines with all accessible elastomers like NR, CR, CSM, NBR as well as FKM, ECO, HNBR, XNBR or silicone rubber. We guarantee highest quality and cost-efficiency. The PolymerTechnik Ortrand is looking forward to having you as our customer to find your individual product solution.



## Products

Our company has produced apron cloths for 15 years now. In these years, our employees have constantly worked on improving apron cloths, which has always been appreciated by our long-standing customers. As a result, we can now deliver snow white apron cloths which have an excellent resistance to animal oils and fats as it is demanded in the processing industry. Apron cloths are also available in cream white, orange, blue, reddish brown, black and in any other colour. Our elastomer coated apron cloths, which are rubberized on both sides and have a fabric or knitted fabric lining, are high tensile, permanent flexible, waterproof, very comfortable and feel nice to the touch even after having them washed many times. That is why PTO's apron cloths have proven their worth Europe-wide in different kinds of application areas, e. g. in the processing and in the technical industry. As a matter of course, our customers can choose their needed thickness, length and breadth.

The market offers many kinds of awning cloths, today. PTO has dealt for many years with this product and can offer a great variety of awning cloths, now. Therefore, high tensile polyester or polyamide fabrics are coated with all accessible elastomers. If you need a high chemical or oil resistance NBR, CR, but also HNBR, NBR or ECO and FKM are used. Do you wish to have a good weather resistance and brilliant colours? Then EPDM and CSM are applied. A good alternative solution for the low-tempera-

## PolymerTechnik Ortrand GmbH

ture range would be NR. Very good burning characteristics of our awning cloths are also a matter of course as well as good product longevity. So, our awning cloths can be used for different industrial applications.

High quality boat cloths for spare time activities, but also for the rescue services like the fire brigades, have been produced by PTO for many years now. The Polymer Technik Ortrand developed a new way to meet extraordinary demands. High tensile fabric linings such as polyester or aramid (Kevlar or Nomex) are coated with new combinations of raw materials on the basis of NR, EPDM, CSM and other elastomers. If you wish we guarantee that our boat cloths have brilliant colours, are durable, wear proof, resistant to abrasion, weather proof, and if needed, resistant to oil.

Folding bellow cloths that are produced by PTO are worldwide employed as flexible gangway systems for busses, trams, high speed trains, undergrounds and at airports. Vehicles are getting faster and faster and demand fabrics with very good dynamical and mechanical properties that fulfill these new requirements. A good fire resistance, a low smoke gas density, a high resistance to UV, climate and abrasion as well as brilliant colours and product longevity are needed, too. Also very important is a good workability at our customers' what PTO is known for worldwide.

Diaphragms and sealings are complex in structure and have to meet the most difficult applications. They not only have to be resistant to aggressive chemicals, oils and fats, but also have to have very good dynamical and mechanical properties. Good product longevity by a constant usage should be guaranteed. So, PTO offers polyester, polyamide and aramid fabrics (Kevlar or Nomex) coated on one or both sides either cured or uncured. For the production of elastomer coated diaphragm cloths many different kinds of rubber such as NBR, CR, CS, CSM or EPDM as well as high performance materials

### Contact

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# rökona Textilwerk GmbH

## Our Company

Over 50 years, rökona Textilwerk GmbH has been a key force in the development, production and sales of modern technical textiles and highly

specialized fabrics for the medical and automotive industries, as well as for other technical applications. We at rökona can look back on many years of tradition and experience. rökona was established in 1961 as subsidiary of the company Gerhard Rösch GmbH. We've moved from initially being a textile producer for the clothing industry to our position today as a flexible and specialized company in the technical textile sector, serving customer needs throughout the world with our wide range of products.



## Philosophy

*A Strong Partner:* We turn your ideas into reality and develop technical textiles at our locations in Germany and Hungary and JV in China Ningbo. Our activities target the automotive industry, sportswear and specialty clothing, lamination, medical textiles and a wide range of other technical applications. We are involved in the knitting, finishing and lining processes. As a result, you receive everything you need from just one source.

*An international Partner:* rökona – The material for perfect solutions. Based on our extensive expertise in all our areas of business, we are able to offer our customers unique, customized solutions. No matter where you're located around the globe.

## Range of Services

*Consulting Services:* Our advice and actions are with you every step of the way. In all phases of our work together – from initial conception to development of all components all the way to realization.

*Our Qualifications:* Thanks to our many decades of market experience in technical textiles, our wide spectrum of existing solutions and our application of the leading, modern production inputs, a high level of quality is a given factor for us. Our qualifications are confirmed and certified by DIN ISO 9001, ISO TS 16949 and Öko-TEX 100.

*Customer Orientation:* It is our aim as a medium-sized family-owned business place to offer a high value on close customer contact and acting in a flexible, versatile and innovative manner.

*Innovation:* We provide distinguished expertise in development thanks to our permanent innovation processes.

## Contact

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### The Company

Sandler AG is one of the 5 largest manufacturers of nonwovens in Europe and among the top 15 worldwide. We offer innovative nonwovens and comprehensive services for various markets – from disposable items to durable materials, to high-tech products.



We inspire markets. We inspire people. As a dynamic, flexible company, our target is to always be one step ahead, so that people as well as markets can be inspired. Our know-how in various manufacturing technologies is brought together at the Schwarzenbach location, making it a competence centre for nonwovens production and allowing us to offer a broad spectrum of solutions that is unique in the industry. Therein, responsibility to employees, the environment and our home region is a vital part of our corporate philosophy. Both in- and outside the company, we take measures to protect the environment and safeguard the health and well-being of our 520 staff members. This commitment is illustrated by certifications according to ISO 9000, ISO 14000, Oeko-Tex, Ohris, FSC and PEFC.

### Products and Technologies

Nonwovens for: hygiene, wipes, automotive, filtration, engineering, home textiles

Production technologies: spunlace technology; meltblown technology; carding; mechanical bonding using needle-punching process; thermal fusion and thermobonding; air through bonding; composite materials.

Especially for technical applications, Sandler nonwovens are innovative and functional alternatives for diverse applications. For the filtration industry, we supply media for HVAC, air and fuel filtration in the automobile and synthetic vacuum cleaner bags. These filter nonwovens feature long operating lives, high efficiencies and resistance to environmental influences.

We are also a leading supplier to the automotive industry. Temperature-stable, lightweight nonwoven absorbers in interior and exterior applications dampen engine and road noise, contribute to good acoustics inside the vehicle and to the reduction of fuel consumption as well as CO<sub>2</sub> emissions. Self-supporting, temperature-stable carrier materials for moulded parts allow for high moulding depths and accuracy. Drapable nonwovens with a high recovery rate are used for seat upholstery and can stabilize the outer material, preventing unsightly creases.

In all our market segments, we are continuously opening up new application areas with our innovative capability, experience and competence and through close cooperation with suppliers and partners from various sectors of the nonwovens industry. Pioneering ideas and awareness of the risks involved are central elements in ensuring

## Sandler AG

our customers' marketability with technically sophisticated manufacturing technologies and innovative nonwovens.

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## SIGVARIS GmbH

### The Company

The expert in medical compression stockings for treatment of venous and lymphatic diseases. SIGVARIS stands for 140 year of experience of providing high-tech textile solution. As one of the global market leaders, SIGVARIS manufactures more than six million pairs of compression stockings each year.



**SIGVARIS**  
LIFE FOR LEGS

All SIGVARIS stockings are certified with the GZG Quality Seal in conformity with RAL GZ 387 (2000), and also comply with the OekoTex Standard.

The manufacturing of medical compression stockings requires the compliance with strict Guidelines. All products are therefore subject to a stringent quality control process. All products aim at providing maximum therapeutic efficacy, high product reliability and optimal comfort properties.

### Products

Medical competence: SIGVARIS collaborates closely with leading physicians and scientists in the product development phase. The company is actively represented in the following organisations: **German Society Phlebology / American Venous Forum / Royal Society of Medicine / Venous Society of India / International Compression Club / Compression Therapy Group / International Union of Phlebology (UIP)**.

Performance – sports compression legwear: SIGVARIS sports compression products incorporate over 140 years of medical expertise. Now the wealth of experience of the world market leader in medical compression stockings is also available in the field of sports. SIGVARIS impresses with sophisticated constructions made from ultra modern high tech fibres, which are perfectly adapted to meet the needs of the high-performing athlete. For the first time, a compression product offers sports-specific functions while guaranteeing a perfect-calibrated pressure on the leg.

A combination of first-class functional fibres ensures controlled compression, increasing performance while protecting at the same time, ideally adapted to the different areas of the leg. The outstanding wearing comfort is achieved through functional moisture regulation, optimum temperature control and effective odour reduction.

### Contact

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## The Company

Our pathway from the founding of the company 80 years ago has taken us from our beginnings as a classic manufacturer of knitted and woven fabrics to being the innovative supplier of special technical textiles for the automobile industry that we are today. There are basically two reasons why this transformation has generated our present level of success: Firstly, there is our willingness to meet our customers' wishes flexibly and reliably. Secondly, we use our experience specifically to create innovations that offer our customers clear product and process improvements. This means that our development department, our fully equipped laboratory and our engineering services are essential elements of our company. They help to ensure that we enjoy an excellent reputation within our fields of expertise.

# STRÄHLE + HESS

## Technology

*Knitting and Weaving:* Circular knitting machines (warp-, weft knitting machines, broad weaving technology with Jacquard facilities if desired).

*Cutting technologies:* Ribbon cutting systems (CNC cutting equipment, automatic length cutters, laser cutting systems).

*Processing:* Bonding/laminating (refining of carrier substances into technically usable products, slit jet technology for coating textile ribbons with thermoplastic adhesives, in-house production of equipment, downstream processing of surfaces according to application / piping, coatings from olefins, CoPES, CoPA and derivatives). Subsequent processing technologies: sewing machines, single- or multi-needle, automatic welt stitching, punching devices, cutter/CAD, automatic shearing for save processing of velour fabric.

## Quality

We set standards. We offer a level of quality that is a benchmark in the market. To do this, we shape and improve our processes with a view to achieving maximum benefits for the customer and ensuring process efficiency, and we ask our customers how satisfied they are with our products and services.

## Products

Special Surfaces, Linings/Encasings / Special Elastic Textiles

Customer Specific Solutions / Customer Specific Solutions / Seat Anchoring Systems

## Contact

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# Sympatex Technologies GmbH

## The Company

For decades, Sympatex Technologies has been a byword for modern, high-tech functional systems. As an 'ingredient brand' Sympatex provides environmentally friendly, breathable, wind- and waterproof membrane systems and layer laminates.



Sympatex made its mark as a brand as early as 1986 when it brought its first textile products onto the market. Nowadays, the company works with big-name manufacturers in the clothing, footwear, accessories and protective workwear segments. This involves realising specific end-customer requirements such as climate control, thermal insulation, protection from cooling, UV absorption and humidity management. And the result of the company's high quality standards and many innovations is a broad base of satisfied customers and a number of top awards.

## Products

The Sympatex Tecton division serves medical, automotive and other industries with tailor-made technical membrane and laminate solutions.

Based on the deep knowledge on its own membrane technology, Sympatex Tecton is capable to offer both - membrane and laminated products - which fulfil the high requests and specifications of the individual application fields. Sympatex Tecton is continuously seeking for new areas of applications which are demanding innovative solutions concerning moisture management, climatisation, ventilation and filtration. Based on decades of experience in the areas of clothing, footwear accessories and workwear, Sympatex is capable to act as development partner for many fields of industrial applications.

With its compact, non-porous and ultrathin structure the Sympatex membranes offer optimum breathability, 100% water and wind proofness plus barrier against bacteria and viruses. All characteristics can be achieved with superior mechanical properties and 100% recyclability.

## Contact

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## Webatex SR GmbH

### The Company

SR Webatex GmbH is a quality supplier of sophisticated textile surfaces. The company's strength lies in the development and production of woven textile solutions in close cooperation with customers—Made in Germany. The company offers the entire chain of textile processes from the yarn manufacturer and greige, over the textile chemical industry to the finisher. Materials are developed based on customer requirements and produced in custom-made lengths. SR Webatex takes pride in a continuous certification of high management (ISO 9001:2008) and environmental standards (ISO 14001:2004).



### Products

The core value of the company is the latest developments in high-end specialized fabrics. Four brands are the pillar of that sector:

SR-Weatherprotect® guards against all weathers from sun rays – UV proof AS 50 plus –, over wind and water, to even resistance against sea water exposure. In addition, the fabric is non-rotting and soil-resistant and flame-retardant (DIN 4102 T.1 (B2)). Despite this heavy armament, SR-Weatherprotect® is light, flexible and transparent.

SR-Shield® protects against electromagnetic radiation with an almost uniquely high shielding factor of 99,99999%. It is efficient at a frequency range of 10 MHz – 4 GHz (ASTM D – 4935-89 und MILSTD 39012) against linear, vertical and horizontal polarization and to circular polarized waves.

The outdoor fabric SR-Sunprotect® made for marquees and awnings promises carefree sun enjoyment. The fabric guarantees a UV protection factor of 80 while at the same time maintaining a high weather- and abrasion resistance.

In September 2011, SR Webatex will launch its latest multi-talented development: SR-Multisafe®. The fabric, developed for the heavy, petrochemical and electrical industry can find application in multiple fields of extreme working conditions and offers certified protection against dangers like rapid inflammation, flying firebrands, metal spilling, foggy vision, contact heat, or electrostatics.

**Technology:** The fabrics are designed for various kinds of applications like adventure, protection, home & office, sports, engineering, fashion or military/law enforcement. SR Webatex sees textiles as the innovative material of the future. Research and close cooperation with independent research institutes is therefore a main priority.

### Contact

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