



GLOBAL INTERLINING SOLUTIONS

FREUDENBERG
PERFORMANCE MATERIALS

 **FREUDENBERG**
INNOVATING TOGETHER



MARKET LEADER FOR INTERLININGS

Five headquarters, 16 production locations, more than 60 sales branches: We are always at hand when our customers are planning or producing their collections. Everywhere. Worldwide.

A perfect fit and comfortable wear are crucial selling points for apparel today. But high-quality clothing has to serve many more purposes. By means of nonwoven, woven and weft materials, interlinings from Freudenberg always provide the best possible support for any garment.

Freudenberg offers the most comprehensive range of interlining solutions: such as lightweight and transparent interlinings for womenswear, elastic and resilient interlinings for menswear, stable and washable interlinings for durable shirt applications, downy wadding for outer wear, water-soluble interlinings for delicate embroidery and prefabricated products for tapes and chest pieces.

Sustainability and the responsible use of natural resources are essential aspects of all our activities. We have increased the share of recycled fibers in our manufacturing processes and offer compostable interlinings for specific applications.

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MENSWEAR – HIGH-TECH MEETS HIGH STYLE

From business suits to leisurewear – Freudenberg offers the perfect interlining for any quality menswear garment.



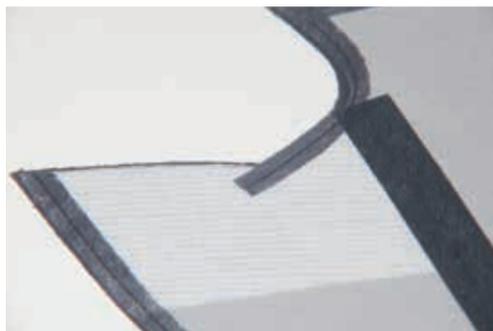
Chest pieces and pre-formed pieces

Always ready to meet your individual demands: Our portfolio includes a wide variety of ingeniously designed chest pieces made of horse hair or washable materials.



Woven and weft interlinings

Interlinings for classical suits, casual wear and outer wear have to ensure the perfect fit and meet the highest demands on comfort and durability. Freudenberg interlinings offers a wide range of solutions to ensure the perfect fit for your application. They are designed to fulfill the highest standards.



Nonwoven interlinings

Freudenberg is your premium supplier of nonwoven interlinings for soft and drapeable fabrics that have to reliably retain their defined shape.



Under collar felt

Lapel interlining

Edge reinforcement

Sleeve head roll

Armhole securing

Canvas

Hem tape

Bridle tape

Front fusing

Small area interlining

Form die-cut

Waistband tape

Hem tape

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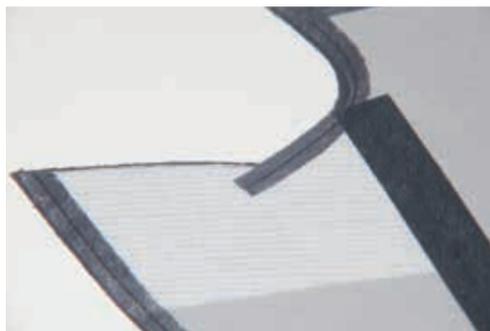
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WOMENSWEAR – CREATIVITY MEETS COMFORT

Transparent, hairy, elastic, robust: Many different fabrics are used in womenswear to meet the most diverse demands of the market. Interlinings from Freudenberg help to overcome limitations in the design and manufacturing of fashionable high-quality womenswear.



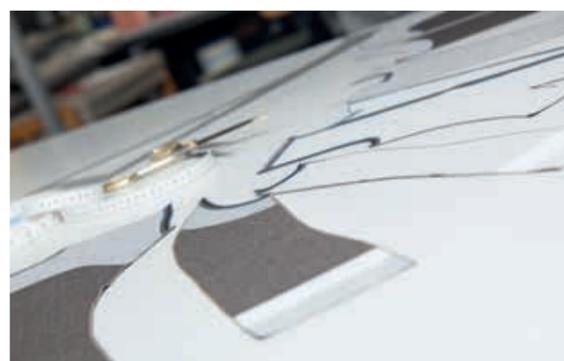
Woven and weft interlinings

Lightweight bi-elastic woven and weft interlinings are indispensable when light fabrics need to be stabilized to facilitate easier processing. Freudenberg offers all-round solutions for transparent and elastic outer fabrics making garments more comfortable, easy to produce and more durable.



Waistbands for skirts and trousers – maximum comfort, perfectly shaped

Classic high-cut, comfort or shaped waistbands: Freudenberg interlinings always provide optimal solutions for shape-retaining and highly elastic products.



Nonwoven interlinings

Freudenberg's classic nonwoven interlinings not only help to stabilize shapes, but also to make garments softer and more adaptable. They can serve as wadding or backing for embroideries. In addition, we offer sophisticated solutions for special applications, such as water-soluble interlinings.



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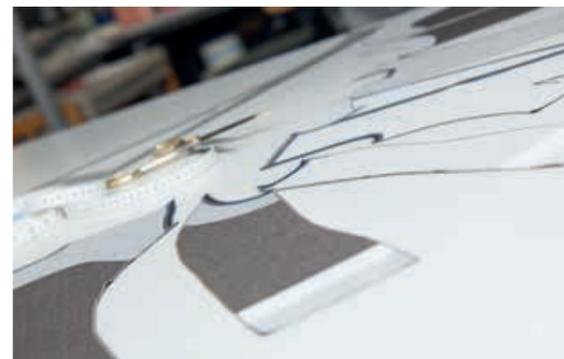
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FASHION WEAR – THE FIT IS ALWAYS PERFECT WITH FREUDENBERG

For the fashion-conscious consumers of today, clothing has to offer the perfect balance between style and function. The demands are high in regards to comfort and individual design. From transparent blouses to casual jackets: manufacturers prefer interlinings made of lightweight, elastic nonwoven, woven and weft materials. They provide invisible stabilization and are indispensable for modern production processes.



Post-processing of garments – innovative and unique

Individual styles and designs are realized by means of intricate post-processing methods such as garment wash, stone wash, enzyme wash, and garment dyeing. These put a significantly higher strain on the structure, surface and color of the outer fabric and the interlining as well.

Freudenberg interlinings for modern and functional fashion wear are extremely adaptable and resistant to pilling. An innovative adhesive system creates the perfect connection between the interlining and the outer fabric.

Chest pieces and pre-formed parts – perfectly in shape with pre-formed interlining components

Menswear with washing treatments and lightweight constructions are currently in vogue. Freudenberg offers a range of washable interlinings and components, including pre-formed chest pieces and sleeve head rolls.



without interlining



with interlining

Trouser waistbands and loops – robust and well-conceived

Webs used in loops not only add stability, they also prevent the open ends of loops from fraying. Freudenberg tapes help to stabilize shapes and to facilitate efficient manufacturing.



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SHIRT INTERLININGS – SUPERIOR TECHNICAL KNOWLEDGE IN SHIRT CONSTRUCTION

Superior technical expertise in shirt manufacturing

Freudenberg has the perfect shirt interlining solution for every outer fabric. We support our customers in all phases of product development from the initial idea to serial production. Based on our long experience in application engineering, we enable our customers in achieving outstanding results.

Freudenberg is your competent partner for sophisticated interlining solutions with sales and application technology studios all over the world. We are market leaders in the development of innovative high-quality materials. Our comprehensive range of globally available products sets the standards for shirt interlining.



Shirt Interlinings – making the difference

Shirt collars, cuffs, and plackets with Freudenberg woven interlinings are designed to meet the needs of our most demanding customers for the creation of their fashions.



Designs and patterns – always up to date

Fashion is continuously evolving. In addition to our classic products, we always follow the latest trends with our collar collections. In our shirt studios we create a large variety of collar designs with fashionable patterns tailored to the specific needs of our customers.



Our product range – comprehensive and versatile

Freudenberg is well known for developing innovative products for specific applications, such as fusible, non-fusible and water-soluble interlinings or the latest generation of bi-elastic solutions. Many of our products are especially designed to fulfill the high requirements of work wear and leasing wear applications.



Service – for your individual needs

Our cutting service provides any required interlining combination with maximum precision. We produce custom-made collar shapes according to your specifications. Modern production facilities and an efficient delivery service guarantee short production times and fast shipment to your production site.



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FUNCTIONAL WEAR – GOOD PERFORMANCE IN ANY OF LIFE’S SITUATIONS

In addition to its portfolio of classic interlinings, Freudenberg also supplies its customers with a broad range of efficient solutions for specific applications. Freudenberg’s interlinings for outer wear, functional wear and special garments include:



Thermal Insulation – warmth and comfort even at low temperatures

Wadding is not only heat-insulating, but it also makes for a fashionable relief effect. Freudenberg wadding is so effective that it can replace down. Thermally regulating volume fleeces round off the range.



Extremely elastic – the focus is on comfort

Interlinings from the “Xtreme elastic” product line are elastic in all directions, easy to process, and not bulky – the ideal solution for top-level sports clothing and fashion wear.



Adhesive Webs and Pinbond – for a durable bond

Webs serve as invisible lightweight bonding elements to create modern outer fabric combinations. Freudenberg webs can be used with a broad variety of outer fabrics and are easy to apply with an iron.



Embroidery – for clear lines

Embroidery backings from Freudenberg are available in several variants: Tearaway, cutaway and easy to fuse backings.

Furthermore, we supply the high-quality lingerie industry with water-soluble nonwoven materials to support large-scale and high-pile embroidery work.



Protective Wear – increased safety and comfort

Fire blockers are flame retardant nonwovens used as intermediate layers in fire-proof clothing. Our products meet the requirements of all relevant certificates.



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TAPES – INVISIBLE SUPPORT FOR MAKING PERFECT GARMENTS



Tapes secure the shape and contours of a garment while it is being made and when it is worn.

Freudenberg tapes are:

- very easy to apply and highly versatile
- of consistently high quality
- designed to meet the requirements of customers and applications
- cut, die-cut, stabilized or sewn together
- used in waistbands, seams, edges and curves



FREUDENBERG PREFORM – PERFECT FIT AND PROCESSING FOR YOUR JACKET

The quality of a jacket strongly depends on the professional cut and the design, but also on the components used inside. Ingenious chest piece constructions are essential for the body of a jacket.

- Industrial, semi-traditional and traditional chest piece constructions
- Standard to high-quality combinations
- Washable chest pieces
- Chest pieces made of high-quality horsehair and canvas materials of natural or synthetic yarns



- Armhole securing tape (TT, T)
- Edge securing tape (TT, T)
- Armhole securing tape (LT)
- Chest piece
- Pocket die-cut (PC)
- Edge securing tape (TT, T)
- Edge securing tape (TT, T)
- Edge tape (T, S)
- Hem tape (MT)
- Piping tape (VC)
- Pocket die-cut (PC)
- Edge securing tape (TT, T)
- Waist band tape (WT, S, VS)
- Lapel fastening tape
- Edge die-cut (EC)
- Hem tape (ET, VT, T)
- Hem tape (VT, ET)

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PARTNER FOR SUCCESSFUL SOLUTIONS

From early design drafts to manufacturing: Freudenberg specialists offer you expert advice on inter-linings and manufacturing processes. Our global network enables us to develop tailor-made solutions in close collaboration with our customers in all parts of the world.



ALWAYS A FEW STEPS AHEAD
WITH THE FREUDENBERG GROUP
INNOVATIONS NETWORK:

INNOVATING TOGETHER

One of the main elements of the Freudenberg Group's corporate culture is coming up with new solutions and products for your long-term success. The apparel specialist from Freudenberg embodies this highly innovative spirit.

- Globally linked Research & Development organization
- Worldwide innovation process
- More than 2,500 employees in Research & Development
- Corporate basic research and development center



SERVICES

Freudenberg is your reliable partner in the fast moving fashion industry. Our garment engineers, highly qualified tailors and patternmakers ensure that you will always find the right interlining solution for your applications. We also offer our full application technology services in 32 application technology studios worldwide – always close to your production facilities.

- Training on interlinings including the processing of garments
- Checking the fusing press to ensure correct processing during production
- Pre-testing the interlinings on outer fabrics for trouble-free production





CORPORATE RESPONSIBILITY

As an independent family business, we act globally in a manner that contributes to sustainably maintaining the ecological, social and economic structure. Freudenberg has a long tradition of sustainability, which manifests itself in social responsibility, long-term entrepreneurial strategies and constant innovation. This has generated a broad range of activities and initiatives in the Group for us to build on. Our aim is to develop a systematic approach to take advantage of synergies and potentials within the Group for the benefit of our customers.

Value for Customers

As a supplier of innovative products and solutions, we deliver superior value and thus significantly contribute to the success of our customers in the fashion industry.

People

We promote a multicultural environment where employees work together in worldwide teams to enrich our culture and capability. And we believe in the value of long-term relationships with our customers, suppliers and industrial partners.

Innovation

Constant innovation enables us to provide our customers with highly sophisticated and future-proof solutions. Innovation helps us to maintain our position as a global market leader. It is essential for our long-term financial success.

Leadership

We believe in solid leadership. Fairness and integrity are the basic values that guide our conduct within the Freudenberg Group, towards our business partners and the general public.

Responsibility

We are responsible corporate citizens in all countries and communities in which we do business.

Long-Term Orientation

Our actions are characterized by financial prudence and solidity. Healthy growth is essential for the company's long-term success.

Environment & Safety

A responsible attitude towards the environment and the safety of our staff are important corporate objectives which goes well beyond the standard legal statutory requirements.

The United Nations Global Compact is a voluntary agreement with approximately 12,000 members – including more than 8,000 companies from over 140 countries. It comprises the obligation to run businesses on the basis of values and sustainability as well as a set of ten principles in four fields: human rights, labor standards, environment and anti-corruption.

The Freudenberg Group joined the United Nations Global Compact initiative in January 2014. The directives that form the basis of the agreement have been incorporated into the values and principles of the Freudenberg Group.



“EXCELLENT QUALITY,
GLOBALLY UNIFORM
AND RELIABLE.”



VALUE PROPOSITIONS FOR GLOBAL CUSTOMERS

COMPLIANCE

- Social compliance
- Sustainability
- Long-term orientation
- Financial solidity

SUPPLY CHAIN SIMPLIFICATION

- Integrated supply chains
- Specifications follow-up at factory level
- EDI/VMI
- Optimization of hidden costs

GLOBAL ORGANISATION

- Worldwide factory coverage
- Dedicated and focused support team
- Wide spread application studios
- Global standard for technical service

TRANSPARENCY

- Turnover tracking
- Executive summary
- Clarifying saving opportunities

GLOBAL PRODUCT SOLUTION

- Customized price/performance ratio
- Tailored Innovations
- Complete product portfolio
- Garment engineering and fitting improvements
- Global product consistency

QUALITY

Quality is our highest concern.

We make sure that all our production sites and suppliers comply with our high quality standards. This enables us to provide our customers with top products all over the world.

- Company-wide product standards
- Globally available interlinings
- Consistent performance
- Complete commitment to resolving quality concerns
- Regular standard inspections to monitor the quality
- Certifications: ISO 9001, ISO 14001, ISO 15001, OHSAS 18001, EMAS, REACH, Oeko-Tex



Continuous quality checks



Testing of harmful substances



Inline production quality check

The Apparel Industry is experiencing dramatic structural changes: buyers are increasingly looking for more sophisticated solutions driven by total cost rather than simple unit price reduction. Compliance and sustainability requirements are rapidly moving from mere rhetoric to hard reality. Global supply chains have become highly complex, a complexity which is here to stay. Large branded players are integrating backwards and forwards in the value chain, driven by increased demand for fast fashion.

What does this mean for apparel suppliers? Our customers require partners with fully integrated global networks enabling them to standardize the quality of their products and services. A fully integrated global network now means the capability of apparel suppliers to provide global standardized solutions within days, with a broad range of solutions in different price ranges and driven by global ‘gold-standard’ in compliance and sustainability.

Through its global reach, complete product portfolio and application know-how, Freudenberg offers its global customers the optimal tailored value proposition – a fully integrated global network.



■ Interlining solutions around the world



You will find your local contact at:
www.apparel.freudenberg-pm.com/contact

More Information:
www.apparel.freudenberg-pm.com

WE ARE RIGHT THERE FOR YOU, WHEREVER YOU NEED US

Five regional headquarters, 16 production sites and a comprehensive sales, service and support network with more than 60 branch offices worldwide – this is our definition of global partnership.

Our global presence enables us to pool resources across borders and create synergies to facilitate the efficient transfer of know-how across all industries. This makes the apparel specialists from Freudenberg a reliable, flexible and highly innovative partner.



**"INNOVATIVE INTERLINING SOLUTIONS:
A STRONG PILLAR OF FREUDENBERG
PERFORMANCE MATERIALS."**

FREUDENBERG PERFORMANCE MATERIALS

Freudenberg Performance Materials

We are a pioneer in the technological development of innovative materials and new production methods. We cooperate with our international customers at working on tailor-made solutions with considerable added value. This has made Freudenberg Performance Materials one of the

world's leading manufacturers of innovative technical textiles for many applications. We are the number one choice not only in the clothing industry but also in the car interior, construction, hygiene, medical, shoe component and filter material markets and in the field of technical applications.



“FREUDENBERG PERFORMANCE MATERIALS: PART OF A LEADING TECHNOLOGY GROUP.”

FREUDENBERG

As a global technology group Freudenberg strengthens its customers and society with trend-setting innovations. Together with partners, customers and science, more than 40,000 employees at more than 60 locations develop technically leading products, excellent solutions and services.

Nonwovens, filters, seals, vibration-control components, special chemicals, medical technology products, mechatronics, IT services and the latest cleaning products made by Freudenberg are indispensable for thousands of applications in more than 30 market segments.

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