WHAT IS DERMIZAX™?

Dermizax™ is a waterproof, windproof, and wicking membrane that is specially developed to provide protection against all kinds of weather while remaining as comfortable as possible. Dermizax™ membrane is a hydrophilic material that utilizes moving molecules, as opposed to most other membranes which have micropores. This offers a number of advantages and makes Dermizax™ shell clothing the very best on the market thanks to its high performance and superior durability.

NO PORES – MANY ADVANTAGES

MORE THAN 200% ELASTICITY! The Dermizax™ membrane is extremely flexible. It has an elasticity of more than 200%. In practice, this means that the membrane can be stretched up to twice its own length in four directions. This ensures that Dermizax™ garments are very comfortable to move in, while reducing the risk of delamination during extreme activities.

REGULATES TEMPERATURE. The moving polymer molecules also move faster at high temperatures or a high activity level. This means that breathability improves when you get hot and sweaty. When it is cold and you wish to retain excess heat, the polymer molecules slow down and the heat loss is reduced to a minimum.

DURABLE FUNCTION. The Dermizax™ membrane does not have micropores that can be obstructed by dirt, or by salt crystals from salt water. It also prevents water from sticking to the pores and expanding when the temperature drops below freezing point. Dermizax™ retains its unique functions even when dirty and after many years of use.

EASY MAINTENANCE. The high quality of the membrane endures even after innumerable washes with regular washing powder. In contrast, the quality of materials made from micropores deteriorate after each wash as the ceramic particles of regular washing powder clog the pores.

TOTA LLY WATERPROOF. The water column, i.e., the value of waterproofness, is min. 20,000 millimeters for Dermizax™ materials.

HIGH WICKING ABILITY. Breathability is up to 30,000 g/m²/24h for 3-layer Dermizax™ and up to 40,000 g/m²/24h for 2-layer Dermizax™.

CONTINUOUS DEVELOPMENT. The Dermizax™ membrane is continuously developed, which means that we are able to offer new and improved products each year.

NO IMPREGNATION NEEDED. There is basically no need to impregnate Dermizax™ garments. The garments will retain their waterproofness even after long-term wear and tear and innumerable washes in a washing machine. However, it may be beneficial to reimpregnate the outer fabric to ensure that the garment surface repels water more quickly and that it maintains its good breathability. If you wish to do so, we recommend using impregnation intended for breathable synthetic materials. The Dermizax™ membrane will nevertheless remain waterproof and breathable as it is well protected on the inside of the outer material.

3-LAYER / 2 ½-LAYER / 2-LAYER DERMIZAX™

Waterproof shell clothing is often divided into three different groups according to quality. What they all have in common is that the membrane is laminated onto the outer fabric.

3-LAYER DERMIZAX™: Consists of three layers that have been laminated together to make one fabric. The outer layer is made from water-repellent microfiber. The Dermizax™ membrane in the middle ensures that the garment is waterproof and wicking. The inner layer, closest to the body, consists of mesh lining that protects the membrane and provides extra durability.

2 ½-LAYER DERMIZAX™: An extremely lightweight Dermizax™ fabric. Garments made from this material are principally characterized by being very lightweight and offering minimal packing volume, as well as being windproof and waterproof. The lining is replaced by surface treatment on the inside of the membrane. The superior durability of our other Dermizax™ fabrics is not achieved, but superlight shell clothing is not intended for daily use.

2-LAYER DERMIZAX™: Consists of two layers that have been laminated together to make one fabric – an outer fabric in microfibre and the Dermizax™ membrane. It also has loose mesh lining next to the body. This lining wicks moisture away from the body, protecting the membrane and retaining body heat. Since garments made from 2-layer Dermizax™ have a loose lining made from wicking Fieldsensor™ mesh, they often feel warmer than 3-layer Dermizax™.
DERMIZAX™ NX

Every now and then a quantum leap occurs in development, and a brand new generation of DERMIZAX™ is created. We are therefore proud to take the technology one step further than competing products by offering the very best in shell clothing:

DERMIZAX™ NX. Provides maximum protection during particularly demanding activities and weather conditions. The wicking ability is twice as high as for traditional membranes (30,000-50,000 g/m²/24h for 2-layer DERMIZAX™). Despite this, DERMIZAX™ NX membrane maintains the same high waterproofness that DERMIZAX™ is renowned for (minimum 20,000 millimeters). This is the ultimate fabric for those who want a waterproof garment with the best breathability on the market as well as extremely good freedom of movement that is ideal for active use.

DERMIZAX™ NX

Winner of the industry’s prestigious «European Ski Award by ispo» in 2011.
**MATERIAL DESCRIPTIONS**

**SHELL GARMENTS**

**FIELDSENSOR™**
Fieldsensor™ is a unique « several layer » netting lining. The inside of the lining quickly absorbs moisture which is transported to the outside of the lining. From there the moisture is spread over a large evaporation surface. The lining dries quicker and feels drier and more pleasant than ordinary lining qualities.

**RECCO®**
RECCO® is a maintenance-free reflector which helps search and rescue crews during searches for people who have been caught in an avalanche. At Bergans we have chosen to sew in a RECCO® search reflector in some of our products. This neither guarantees that you will be found, nor that you will not be caught in an avalanche. But where a RECCO® searcher is in place, the reflector on the garments can be of good help for search and rescue crews.

The RECCO® reflector is maintenance-free and does not require activation. It functions as a transporter of radio waves, cannot activate alarm systems, and will not be destroyed by de-magnetization.

**BERGANS ELEMENT®**
Bergans Element® is a waterproof, windproof and moisture transporting fabric of high quality. The fabric has a water column of minimum 6,000 mm, and have minimum 6,000 g/m²/24h breathability. Clothing made of Bergans Element® is designed to accommodate moderate levels of activity in tough weather conditions.

**BERGANS ELEMENT® ACTIVE**
Bergans Element® Active is a waterproof, windproof and moisture transporting fabric of high quality. The fabric has a water column of minimum 10,000 mm and have minimum 10,000 g/m²/24h breathability. Clothing made of Bergans Element® Active is designed to accommodate moderate to higher levels of activity in tough weather conditions.

**ENTRANT GII™**
Entrant GII™ is a specially treated supporting texture with a 3-layer structure. Each layer has its own function and collectively they create a dynamic balance which ensures good watherproofing of the garment, high breathability capability, and at the same time counteracts moisture on the inside of the garment.

**PORELLE®**
Porelle® membranes are highly durable, waterproof and breathable. The breath-ability ensures that moisture can escape and does not remain trapped in the glove.

**SOFTSHELL**

**SCHOELLER®**
Schoeller® softshell material is very soft, comfortable and elastic. It offers the optimum balance of comfort, breathability, waterproofness and windproofness. It has a soft inner layer and an extremely durable outer layer.

**TECHNICAL WOOL**

**TECNOWOOL®**
With the development of Tecnowool® one has been successful in merging traditional organic wool with present-day modern textile materials. This has resulted in a material which strengthens the wool’s capability to warm up at the same time as it keeps its classic appearance.

**ECOSYSTEM**
By using Ecosystem in our products we support the steadily growing demand for ecological and renewable products. The Ecosystem material is produced from recyclable polyester, fibre is extracted from recycled garments and polymer from plastic bottles. In addition, organic cotton is used that has been produced on farms which have ecological farming without the use of artificial additives.

**DOWN AND INSULATED**

**PERTEX® QUANTUM**
• Extremely light material
• Optimum durability in relation to weight
• Silky material with minimum compression volume

**PERTEX® ENDURANCE**
Pertex® Endurance technology incorporates an ultra thin, air permeable membrane that is both highly breathable and water resistant. This layer protects the insulation material from the elements to maintain loft and retain warmth.

**PERTEX® SHIELD**
Pertex® Shield provides the perfect balance of waterproofness, breathability, wind and water repellency with flexibility and a lightweight construction.

**PRIMALOFT® ECO**
PrimaLoft® ECO is an environmentally friendly insulating material developed for performance and comfort. Eco insulation technology combines 50% recycled materials with PrimaLoft® fibres in order to obtain a very high standard of insulation. PrimaLoft® ECO is a light and water-repellent material of superb softness, made to keep you dry and comfortable.

**PRIMALOFT® ONE**
PrimaLoft® ONE is the highest performing insulation on the market for warmth, water resistance, softness and compressibility. PrimaLoft® ONE is an ultra-fine microfiber insulation that is as warm, soft and lightweight, and is warmer wet or dry than all other insulations.

**PRIMALOFT® SPORT**
PrimaLoft® SPORT is a premium performance insulation engineered for superior warmth, water resistance, loft, softness and compressibility. PrimaLoft® SPORT insulation keeps the body warm, dry and comfortable, even in extreme conditions.

**FLEECE**

**POLARTEC® POWER STRETCH®**
Polartec® Power Stretch® fabrics feature body-hugging 4-way stretch and are very breathable. They keep you dry when you sweat and provide warmth without weight.
• Wind and abrasion resistant
• Comfortable next-to-skin
• Machine washable

**POLARTEC® THERMAL PRO®**
Polartec® Thermal Pro® fabrics are the most visually dynamic and technically advanced of Polartec® insulation fabrics. Available in a variety of unique surface textures and patterns, many of which enhance performance, Polartec® Thermal Pro® fabrics are great styling options for virtually every end use.
• Distinctive surface textures
• Warmth without weight
• Highly breathable
• Dries quickly
• Machine washable
• Versatile use
POLARTEC® WINDBLOC®

Polartec® Windbloc® fabrics block 100% of the wind and offer maximum protection from the elements. The soft feel, stretch, and Durable Water Repellent (DWR) finish combine to make this the highest quality, most comfortable windproof fleece product on the market.

- Windproof and water repellent
- Warmth without weight
- Stretch for active comfort
- Less noise than a hardshell
- Breathable
- Durable
- Machine washable

POLARTEC® CLASSIC MICRO

Polartec® Classic Micro fabric is the reference standard for lightweight warmth and breathability. The tight-knit 100% microfiber polyester velour construction creates air pockets that trap air and retain body heat. Provides outstanding breathability, warmth without weight, quick drying performance and non-irritating, soft, comfortable feel.

COTTON

EPIC®

EPIC™ is a windproof and highly water-repellent cotton material with great breathability. The cotton fibres are encapsulated in a silicone barrier that reduces the material’s absorptive properties. This increased durability and breathability, reduces heat loss and drying time, and helps the fabric repel dirt more easily. EPIC™ is a protective material for use in any weather. The silicone used in this process is derived from sand and breaks down to sand – there are no waste products from the encapsulation process.

ORGANIC

These garments are made with organic cotton. Organically grown cotton is a much more environmentally friendly way to grow cotton, both for the environment and for the cotton farmers. No fertilizers, gene modified organisms or damaging and polluting pesticides are used in the making of this cotton.

BLUESIGN®

Products carrying the “bluesign® approved fabric” label contain semifinished goods that were manufactured according to the bluesign® standard.

CONSUMER SAFETY

bluesign® meets highest criteria regarding consumer protection against harmful substances.

SUSTAINABLE PRODUCTION

bluesign® stands for innovative, resource-conserving and environmentally friendly production.

HIGH-TECH AND COMFORT

bluesign® makes no compromise in functionality, quality or design.

www.bluesign.com
Technical wool blend

Mixing traditional wool and modern technical fibers improves the unique qualities of the wool. Temperature-regulating and wicking abilities are maintained and durability is increased.