X-BIONIC® FUNCTIONAL UNDERWEAR ORDERCATALOGUE


X-BIONIC® Functional Underwear uses the body’s different heat zones to regulate its climate.
BIONIC MEANS LEARNING FROM NATURE.
X-BIONIC® MEANS SURPASSING IT.

The human body functions optimally at its preferred temperature of 37°C. It consumes the least energy, and is effective and durable.

To guarantee this preferred temperature even in hot environments, nature provided man with a highly efficient air conditioning system: sweat. X-BIONIC® Underwear supports this natural air conditioning system, harnessing the cooling function of the sweat film instead of allowing it to dry up like traditional active undergarments.

We learn from nature here.

At the same time, X-BIONIC® Underwear offers effective thermal insulation to prevent overcooling when the sporting is finished. This is the first article of clothing to effectively cool when you sweat and heat when you're cold.

And that's where we leave nature behind.

X-BIONIC® is a revolution. Can be worn like underwear, better than nature, and designed with the demands of sport in mind.

Keeps you warm when you're cold, cool when you're sweating.

Shivering and sweating are the body's methods of maintaining its preferred temperature of 37°C - but they both consume energy. Supporting your body when you sweat and protecting it against freezing improves your ability to perform. Read on inside to learn just how X-BIONIC® Underwear achieves this.

THE RENOWNED FRENCH MAGAZINE <TREK> PASSES IT’S VERDICT
BIONIC® FUNCTIONAL UNDERWEAR. WINNER IN COMPARISON TEST.

Compared with 24 of the world's leading functional underwear manufacturers.

«Avant-garde technology
... the most modern thermal underwear available.»

WINNER!

TREK Magazine
issue 04/2005
ENHANCED PERFORMANCE WITHOUT DOPING.

Our bodies produce different amounts of heat in different places. X-BIONIC® Underwear reacts to this with pinpoint precision and supports the body in maintaining its preferred 37°C temperature. The first proof comes through a regulated release of warmth without the risks of overcooling: you conserve precious energy for your ability to perform.

**Approx. 22°C surface temperature – heat insulation.**
ISO-Shoulder™ (Part of the Climatronic™ System) protects the shoulders in winter against the effects of cold. Seen here in blue.

**Approx. 25°C/27°C exterior temperature.**
3D-BionicSphere® system. The complex system of channels operates as insulation against cold whilst developing an intense dynamic that effectively draws away warmth from garments over a large surface area. The threat of post-event overcooling is eliminated, yet you still won’t feel the wetness of sweat there. The activity in the interior of the 3D-BionicSphere® system is visible through the rapid alternation of red and yellow colouring within this area.

**Approx. 28°C exterior temperature – strong release of warmth.**
During exertion, the warmth must be conducted away. This can be take place in the outside portion of the shoulder blades and without impeding performance.

**Approx. 24°C exterior temperature – moderate release of warmth.**
Warmth is needed in the body’s core to support the interior organs. Warmth is only released at a medium level there. Optimal overall results are only possible when ISO™ Pads for the hips are combined with the AirConditioningChannel™ to balance out the warmth. (Both a part of the Climatronic™ system) Seen here in green/yellow.

**Approx. 25°C exterior temperature – moderate release of warmth.**
The thigh muscles produce warmth that is released in a regulated way. The thighs are also kept warm through exterior ISO™ pads (part of the Climatronic™ system).

**Approx. 27°C surface temperature – high release of warmth.**
Excess heat is conducted away without risk of overcooling for the inner thighs (seen here in red). Innerlap AirConditioningZone™ (part of the Climatronic™ system).

**Approx. 26°C surface temperature – precise release of warmth.**
In the hollow of the knee, the AirConditioningSpot™ (part of the Climatronic™ system) handles the release of warmth: Circular colouring.

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"WINNER!"
COOLS WHEN YOU’RE SWEATING.

The cooling effect of X-BIONIC® UnderGear is only activated once you start sweating. Its clever regulation system works with the most reliable of starters: your sweat. One of a kind, effective and always just in time with its cooling power. Regulated climate control, developed by scientists, tested by endurance athletes.

1. **ISO-Shoulder™**

Garments often hang heavily on the shoulders. Add wind and the weight of rain, and garments for the upper body frequently sit tightly on the shoulders – an open doorway for cold. ISO Shoulder™ forms an insulating layer to keep penetrating cold at bay. The material is formed in gentle waves that leave channels instead of lying flat, providing space for air at body temperature. Outstanding protection against chilly upper body garments.

2. **AirConditioning Channel™**

in the chest area are part of the climate channel system. Physiological studies have shown that the chest area is an optimal zone for quick and effective air conditioning. Exchanging fresh air over a channel system cools the chest area without spreading a "cold" sensation throughout the body. The constant air movement along the AirConditioning Channel™ also draws moisture away from the sweat zones just as effectively.

3. **Innerlap AirConditioningZone™**

In terms of muscle performance, the inner thigh is less reactive to cold. We all instinctively know this: when our hands are cold, we put them between our thighs to warm them up, helping us re-establish our overall sense of warmth more quickly. The Innerlap AirConditioning Zone™ has been placed in this area. It is a finely knit fabric mesh with zero insulation function. Cooling therefore occurs initially through the exchange of air. This cooling performance increases as soon as sweat appears to be evaporated, since this process is active directly next to the skin.

4. **InsulationPads™**

on the upper thigh assist the retention of heat in the thigh muscles. Under-cooled muscles are susceptible to injury, and strongly under-cooled muscles can feel numb. Even more dangerous is when the cooling slows the muscle reaction time, leading to the threat of muscle injuries and increased accident risk. This increase can be as much as 60% in the case of skiing, for example. Insulation-Pads™ reduce such risks. Shaped like waves, their cushions sit with a large surface above the exterior thigh musculature, thereby retaining the necessary heat next to the body to maintain muscle performance.

5. **3D-BionicSphere® System* **

in the chest area provides cooling.

6. **3D-BionicSphere®-System**

under the armpits, processes large amounts of sweat.

7. **ISO-Pad™**

on the hips, holds warmth on the body.

8. **ElbowPad™**

protects elbows from the cold.

9. **ExpansionKnee™**

protects knees from the cold.

* for more information, please see the detailed descriptions.

Version 2.0

Constant product improvement. Technical innovations flow constantly into our products. To help us determine which product version you own, we’ve sewn the version number for version 2.0 and newer products into the interior of the cuff of the X-BIONIC® UnderGear. Version 2.0 either has no version number or a .0 is already sewn in.
KEEPS YOU WARM WHEN YOU’RE COLD.

You know that unpleasant feeling of having just sweated and then getting goose bumps afterward. Your body is sounding the alarm: Caution, overcooling risk. X-BIONIC® UnderGear prevents these chills. If no sweat is present, then a unique process uses air heated by the body as thermal insulation.

**THE KNEE:**

9 **ExpansionRibs™**
A knee can bend up to 160°. It’s hard for undergarments to keep up with that without thinning out and hence losing their warming functionality. The accordion principle behind the ExpansionRibs™ improves its insulating character rather than losing it when the knee is bent. A system of chambers and channels provide insulation by storing warm air inside; they are highly flexible in unfolding themselves during movement.

10 **AirConditioning Channel™**
is a ventilation system of channels that flow around the body, continuously carrying away moisture and warmth. It allows air to pass to body regions not normally accessible through fresh air circulation.

11 **AirGuides™**
work like spacers and borders along the AirConditioning Channel™. The AirConditioning Channel™ must be combined with the AirGuides™ for winter use. The AirGuides™ ensure proper distance for heavy, wintereised upper body garments and ensure a highly effective flow volume of fresh air through the AirConditioning Channel™.

12 **ISO-CalfPad™**
Calf muscles can cool down quickly, particularly after short pauses and even if the overall body is still heated. This can lead to the risk of injury. The ISO CalfPad™ retains the body’s warmth. Here too the knitted fabric settles itself in a wavy shape over the skin, forming channels for storing air in a manner similar to the ISO-Shoulder™ (1). The body-temperature air retained in these channels decisively delays the cool-down of the calf musculature and adjusts to the body’s overall perception of warmth.

13 **3D-BionicSphere™-System***
in the lumbar area provides cooling without the risk of overcooling.

14 **AirConditioningSpot™**
cools the knee without overcooling.

* For more information, see the detailed description.
ElbowPad™

The ExpansionRibs™ that form the elbow cushion work similarly to the knee area, but are finer. The knitted fabric folds apart based on the accordion principle, insuring that winter cold doesn’t cool down the elbows. Even when sharply bent, the insulating effect is maintained through warm air stored in the interior. The flexibility of the ExpansionRibs™ and the elasticity of the yarn allow a frictionless freedom of movement. Even sports with continuous arm movement, such as Nordic Walking, produce no symptoms of musculature exhaustion from the movement of the Expansion-Ribs™.

Muscle activity produces high frequency vibrations that are not initially perceptible. When the muscles grow tired, the frequency of the vibration grows slower. The fluttering of the exhausted muscle becomes perceptible. It is powerless. The High Impact Technology™ of X-BIONIC® Energy Accumulators™ stabilizes muscles from the start. You conserve energy resources. Ideal conditions for high performance.

The ISO-Pads™ over the hipbones and the finer ISO Pads™ on the buttocks retain body heat that is necessary to guarantee interior organ functionality.

3D-BionicSphere®-System under the arm

Of the 3 million sweat glands in our skin, almost 300 per square centimetre are located in the armpits, twice as many as on the forehead. Sweat production gets underway there even when our muscles are just warming up. To prevent sweat leaks from the beginning, we’ve radically expanded the Evaporation Surface Expander™ in this area to help process sweat from the SweatTraps™.

The High Impact Technology™ of the X-BIONIC® Energy Accumulators™ has a stabilising influence on the blood vessels. By supporting these vessels, the circulatory system is unburdened and oxygen and nutrient provision is improved. Through speedy return flow of the expended blood to the heart, muscles and organs have quicker access to performance-enhancing oxygen and nutrients.

3D-BionicSphere®-System on the tailbone

The sweat of the lower back area is conducted through the 3D-BionicSphere® system to the tailbone for evaporation. The SweatTraps™ on the lower back are targeted specifically at catching sweat flowing toward the buttocks. This first phase, which often leads to friction sores, is interrupted before it can even begin.

THE SUPERIORITY IS IN THE DETAIL.
REDUCE SWEAT, DON’T PREVENT IT.

**InnerAirChannel™** are channels that store air in the interior of the 3D-BionicSphere® system. Their surface lies up to 5mm from the skin and from there leads into the Evaporation Surface Expander™.

**OuterAirChannel™** These channels deliver fresh air into the 3D BionicSphere® System, ventilating the SweatTraps™. The air is warmed here, quickly becomes saturated with moisture and is replaced continuously by the subsequent flow of cold, fresh air; the ventilation circulates actively for as long as the body continues to sweat.

**Evaporation Surface Expander™** can absorb and evaporate a great deal of moisture. The use of fragmented fibres greatly increases the evaporation surface. With fresh air streaming through, significant amounts of moisture are forced away through the dynamic of the body’s heat.

Das 3D-BionicSphere®-System leaves residual moisture on the skin that the body does not interpret as wetness. We have no sensors for sweat. We only perceive sweat mechanically, once drops form and begin to trickle, at which point we register «wetness». SweatTraps™ absorb this wetness before it is felt, drawing it away to be evaporated and disposing of it through thermal dynamics. Only a moisture film remains on the skin, one that serves to cool. Because: No sweat film, no cooling.

**Sweat helps save energy.** Traditional active undergarments siphon off sweat in its entirety, leading the body to continue increasing its sweat production. The result: loss of water, minerals and salt. The patented and unique 3D-Bionic-Sphere® system retains important resources to keep you performing better. Less energy is burned in regulating body heat, leaving you more energy reserves for your training.

**WHEREEVER SWEAT ACCUMULATES, THE 3D-BIONICSPHERE® SYSTEM GOES TO WORK.**

The 3D BionicSphere® System consists of: InnerAirChannels™ and OuterAirChannels™. These form the Sweat-Traps™ and the Evaporation Surface Expander™. 3D-BionicSphere®-System. A component of the 37°C Technology™.

**3D-BionicSphere®-System**

The 3D-BionicSphere®-System works from its position on the chest and the back. Without the sensation of wetness or heat. No risk of overcooling during recovery. The cooling is activated only when the body’s temperature rises and sweating begins. If no sweat is present, then the system serves as insulation. The 3-D-BionicSphere® System only begins to cool once you are sweating.

**During the event**

Sweat forms a fine film of moisture on the skin. Drops are absorbed by the Sweat Traps™ and conducted into the Evaporation Surface Expander™. The evaporation occurs in 3 ways, activated by body heat:

- On the skin, for cooling.
- In the SweatTraps™, to process excess moisture
- In the Evaporation Surface Expander™, where the excess is finally evaporated.

**During recovery**

Cold ambient air represents no overcooling risk factor, because the warm air inside the InnerAirChannels™ form an insulating cushion. During recovery, the cooling-down process is interrupted by the lack of sweat. The air in both channels serves to warm and protect, using the body’s own warmth to create a body aura: an air-conditioned protective shell that wards off the influence of cold.

The 3D BionicSphere®-System begins warming when sweat is absent.
Shirts
Men

Custom made colours available on request. Minimum quantities apply.

ISO-Shoulder™
3D-BionicSphere® System
AirConditioning Arm Pit™
Underarm Sweat Traps™
AirConditioning Channel®
Air Traps™ Elbow Pads
Tummy X-Control™
Backside 3D-BionicSphere® System

SkinNODOR®
Nano-Technology

The shirt that gets you through even the hardest winter.

Shirt Long Sleeves also available with Turtle Neck
Article code: I 0097
Colour code: X39 Black/Orange

The Army’s seal of quality.
Sizes: Women:  
XS = 34-38  S/M = 40-44  L/XL = 46-50  XXL = 56-58  
Sizes: Men:  
XS = 34-38  S/M = 44-48  L/XL = 50-54  XXL = 56-58  

Custom made colours available on request. Minimum quantities apply.

Shirt Short Sleeves Men  
Technical composition:  
94% SkinNODOR® 4% Elastane 2% Mythlan™  
Material  
94% Polyamide 4% Elastane 2% Polypropylene  
Sizes:  
S/M  L/XL  XXL  
Article code: I 0092  Colour code: X13

Shirt Long Sleeves Men  
Technical composition:  
94% SkinNODOR® 4% Elastane 2% Mythlan™  
Material  
94% Polyamide 4% Elastane 2% Polypropylene  
Sizes:  
S/M  L/XL  XXL  
Article code: I 0093  Colour code: X13

Also available in:  
XH7 Sage Green/Orange  
XH6 Charcoal/Orange

Example: Colour  
XH7 Sage Green/Orange
Always three laps ahead of winter.
Sizes: Women: S/M = 34-38  L/XL = 46-50  XXL = 52-58
Sizes: Men: S/M = 44-48  L/XL = 50-54  XXL = 56-58

Custom made colours available on request. Minimum quantities apply.

Pants Short Men
Technical composition: 84% NanoCore™ 10% Mythlan™ 6% Elastane
Material 84% Polyamide 10% Elastane 6% Polypropylene
Sizes: S/M L/XL XXL
Article code: I 0015 Colour code: X13

Also available in: XH7 Sage Green/Orange XH6 Charcoal/Orange

Pants Medium Men
Technical composition: 82% NanoCore™ 11% Mythlan™ 7% Elastane
Material 82% Polyamide 11% Elastane 7% Polypropylene
Sizes: S/M L/XL XXL
Article code: I 0012 Colour code: X13

Pants Long Men
Technical composition: 84% NanoCore™ 10% Mythlan™ 6% Elastane
Material 84% Polyamide 10% Elastane 6% Polypropylene
Sizes: S/M L/XL XXL
Article code: I 0009 Colour code: X13

Also available in: XH7 Sage Green/Orange

X: BIONIC®
FUNCTIONAL UNDERWEAR
ENERGY ACCUMULATOR™
HIGH IMPACT

Tracksuit
Men

ISO Pads™
Expansion Knee™

Air Conditioning Channel®
Air Trap™ Insulation Pads™

Tummy X-Control™
Underarm Sweat Traps™
Air Conditioning Arm Pit™

Backside 3D-Bionic Sphere® System
ISO Pads™

3D-BionicSphere®-System

SkinNODOR®
Nano-Technology

The Army’s seal of quality
Technical composition:
87% SkinNODOR®
10% Mythlan™
3% Elastane

Material
87% Polyamide
10% Polycaprolactone
3% Elastane

Sizes:
S/M    L/XL    XXL

Article code: I 0036
Colour code: X39

Custom made colours available on request. Minimum quantities apply.

Tracksuit Long Leg Men

Tracksuit Medium Leg Men

Black/Orange

Elbow Pads™
3D-BionicSphere® System
AirConditioning Channel®
AirConditioning® Spot™

Sizes:  S/M     L/XL     XXL

Sizes: Women: Sizes: Men:
XS = 34-38  S/M = 44-48
S/M = 40-44  L/XL = 50-54
L/XL = 46-50  XXL = 56-58

Black/Cobalt Blue

Sizes:  S/M     L/XL     XXL

Article code: I 20036
Colour code: X42

Article code: I 20037
Colour code: X42

Custom made colours available on request. Minimum quantities apply.
SkinNODOR® is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed Skin-NODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also ‹breathes›, ensuring an excellent fit.

ISO-Shoulder™
3D-BionicSphere®-System
AirConditioning Arm Pit™
Underarm Sweat Traps™
AirConditioning Channel®
Elbow Pads™
Tummy X-Control™
3D-BionicSphere®-System
ISO Pads™
3D-BionicSphere®-System
Underarm Sweat Traps™
Elbow Pads™
AirConditioning Channel®

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The shirt for every woman, every sport and every winter.

**Shirt Long Sleeves Women**

- **Composition:**
  - 94% SkinNODOR®
  - 4% Elastane
  - 2% Mythlan™
- **Material:**
  - 94% Polyamide
  - 4% Elastane
  - 2% Polypropylene
- **Sizes:** XS, S/M, L/XL

**White/Anthracite**

- Article code: I 0094
- Colour code: X66

**Black/Orange**

- Article code: I 0094
- Colour code: X39

**Sage Green/Orange**

- Article code: I 0094
- Colour code: XH7

**Shirt Short Sleeves Women**

- **Composition:**
  - 94% SkinNODOR®
  - 4% Elastane
  - 2% Mythlan™
- **Material:**
  - 94% Polyamide
  - 4% Elastane
  - 2% Polypropylene
- **Sizes:** XS, S/M, L/XL

**White/Anthracite**

- Article code: I 20995
- Colour code: X66

**Black/Orange**

- Article code: I 20995
- Colour code: X39

**Sage Green/Orange**

- Article code: I 20995
- Colour code: XH7

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- Colour code: X66

**Black/Orange**

- Article code: I 20995
- Colour code: X39

**Sage Green/Orange**

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- Colour code: XH7

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- Article code: I 20995
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**Sage Green/Orange**

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- Colour code: XH7

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**Sage Green/Orange**

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- Colour code: XH7

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- **Material:**
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  - 4% Elastane
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- **Sizes:** XS, S/M, L/XL

**Black/Anthracite**

- Article code: I 20995
- Colour code: X13

**Black/Orange**

- Article code: I 20995
- Colour code: X39

**Sage Green/Orange**

- Article code: I 20995
- Colour code: XH7
Custom made colours available on request. Minimum quantities apply.

Up to the calf, the knee and the thigh and all the way through spring.

**Pants Short Women**

**Black/Anthracite**

Sizes: XS  S/M  L/XL

Article code: I 0019

Colour code: X13

**Pants Medium Women**

**Black/Anthracite**

Sizes: XS  S/M  L/XL

Article code: I 0018

Colour code: X13

**Pants Long Women**

**Black/Anthracite**

Sizes: XS  S/M  L/XL

Article code: I 0017

Colour code: X13

**Pants Short Women**

**White/Anthracite**

Also available in: XH6 Charcoal/Orange XH7 Sage Green/Orange

Sizes: XS  S/M  L/XL

Article code: I 0019

Colour code: X13

**Pants Medium Women**

**White/Anthracite**

Also available in: XH6 Charcoal/Orange XH7 Sage Green/Orange

Sizes: XS  S/M  L/XL

Article code: I 0018

Colour code: X13

**Pants Long Women**

**White/Anthracite**

Also available in: XH6 Charcoal/Orange

Sizes: XS  S/M  L/XL

Article code: I 0017

Colour code: X13

**TECHNICAL COMPOSITION:**

81% NanoCore™
12% Mythlan™
7% Elastane

**MATERIAL:**

81% Polyamide
12% Elastane
7% Polypropylene

**TECHNICAL COMPOSITION:**

84% NanoCore™
10% Mythlan™
6% Elastane

**MATERIAL:**

84% Polyamide
10% Elastane
6% Polypropylene

**TECHNICAL COMPOSITION:**

84% NanoCore™
10% Mythlan™
6% Elastane

**MATERIAL:**

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10% Elastane
6% Polypropylene

**TECHNICAL COMPOSITION:**

81% NanoCore™
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7% Elastane

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7% Polypropylene

**TECHNICAL COMPOSITION:**

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6% Elastane

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**TECHNICAL COMPOSITION:**

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**TECHNICAL COMPOSITION:**

84% NanoCore™
10% Mythlan™
6% Elastane

**MATERIAL:**

84% Polyamide
10% Elastane
6% Polypropylene

**TECHNICAL COMPOSITION:**

8% NanoCore™
11% Mythlan™
7% Elastane

**MATERIAL:**

8% Polyamide
11% Elastane
7% Polypropylene

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11% Mythlan™
7% Elastane

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**TECHNICAL COMPOSITION:**

8% NanoCore™
11% Mythlan™
7% Elastane

**MATERIAL:**

8% Polyamide
11% Elastane
7% Polypropylene
Traditional thermal underwear with fatal consequences:
Traditional thermal underwear does one thing consistently; it retains as much of the body’s own warmth directly to it as possible. What in one moment can be a pleasant feeling of warmth, can quickly lead to overheating. Since active climate regulation within this insulating layer is not possible. Traditional thermal underwear is oriented towards ‘permanent warmth’, which has fatal consequences for active people.

If activity increases, e.g. from skiing or working, in extreme cold then the body’s temperature also rises. This excess warmth has no way of escaping in traditional thermal underwear. The body begins to perspire heavily. The consequences are loss of performance from heat accumulation and loss of water and minerals. The risk is a circulatory collapse.

Retain performance with X-Bionic®:
If, like a sports person, you need to retain your performance in extreme cold or, like a worker on arctic oil platforms, you don’t want to endanger your performance, then you need X-Bionic® Energy Accumulator Extra Warm.

The patented 3D-BionicSphere® System:
X-Bionic® Functional Underwear is a unique underwear that is able to warm when you’re cold and to cool when you perspire, thanks to its patented 3D-BionicSphere® System. A unique, highly efficient regulating system which ensures a permanent balance of warmth and cold, even in extremely cold situations.

Objective cold and perceived cold:
In order to develop an underwear which intelligently and effectively protects against the cold and, at the same time, offers permanent wellness comfort, knowledge of people’s warmth sensations is an important criteria for placing individual ‘warming’ and ‘cooling’ elements.

Since humans are not equally sensitive to heat and cold in all the areas of the body. If we place our warm hands on our backs, near the kidneys, a warming feeling spreads over the whole back. Even if we added the same warmth to an area of the same size on the shoulder, this would not create the same ‘comforting feeling’.

Natural reaction patterns:
If we have cold hands, we jam them between our thighs... And why? Because we don’t react so sensibly to cold in that area, for example, as we do on the abdomen. But our hands are equally cold and the body’s temperature is the same, if we tried to warm our hands by laying them on the area around the kidneys we would cool down spontaneously. However, ‘objectively’ there is no reason not to warm our hands on our stomachs or backs. The balance of warmth remains completely unaffected. But subjectively it makes an enormous difference. The difference is simply our perception of the individual areas of the body. These perception zones have been researched, considered and incorporated in the X-Bionic® Energy Accumulator™ Extra Warm, in order to ‘objectively’ and ‘subjectively’ regulate heat and cold; even in extreme areas.

A masterpiece of cord technology:
The latest cord technology in the X-Bionic® Energy Accumulator™ Extra Warm has created a connection between extremely thin cord parts, comparable with fine stockings, and highly insulating fleece-type thermal elements. The cord mesh used allows superfluous heat to escape. They are placed in body areas which are less reactive to cold and are so narrow that they do not influence your overall impression of ‘pleasing warmth’, but provide the perfect valve for excess warmth to escape.

In combination with the patented 3D-BionicSphere® System, X-Bionic® Energy Accumulator™ Extra Warm ensures that the body is cooled when you start to perspire. When you stop perspiring spontaneously, the insulation effect takes over. And all that at temperature fluctuations of 50°C and a wide variety of physical exertions.

X-Bionic® Energy Accumulator™ Extra Warm, more than just thermal underwear: Cools when you perspire, warms when you chill, even in extreme cold and with large fluctuations in temperature.

Zero Insulation Channel
The latest cord technology in the X-Bionic® Energy Accumulator: Extra Warm has created a connection between extremely thin cord parts, comparable with fine stockings, and highly insulating fleece-type thermal elements.

The cord mesh used allows superfluous heat to escape. They are placed in body areas which are less reactive to cold and are so narrow that they do not influence your overall impression of ‘pleasing warmth’, but provide the perfect valve for excess warmth to escape. In combination with the patentied 3D-BionicSphere® System, X-Bionic® Energy Accumulator™ Extra Warm ensures that the body is cooled when you start to perspire. When you stop perspiring spontaneously, the insulation effect takes over. And all that at temperature fluctuations of 50°C and a wide variety of physical exertions.
Custom made colours available on request. Minimum quantities apply.

Extra Warm Shirt + Pants Long Men

- **Sizes:**
  - Women: XS = 34-38, S/M = 40-44, L/XL = 46-50
- **Article code:** I 20106
- **Colour code:** XH6
- **Technical composition:**
  - 75% NanoCore™
  - 15% Polyamide
  - 7% Mythlan™
  - 3% Elastane
- **Material:**
  - 90% Polyamide
  - 7% Polypropylene
  - 3% Elastane

Extra Warm Shirt + Pants Long Women

- **Sizes:**
  - XS = 34-38, S/M = 40-44, L/XL = 46-50
- **Article code:** I 200107
- **Colour code:** XH6
- **Technical composition:**
  - 75% NanoCore™
  - 15% Polyamide
  - 7% Mythlan™
  - 3% Elastane
- **Material:**
  - 90% Polyamide
  - 7% Polypropylene
  - 3% Elastane

Also available with medium legs.

- **Article code:** I0109
- **XH6 (Charcoal/Orange)**

Extra Warm for Women is also available in:
- XB3 Natural White/Sky Blue
- XB4 Natural White/Pink
**Trekking**

X-Bionic® Functional Underwear has developed special underwear designed to meet the particular demands of trekking. Warm in winter, they meet all the demands placed on them by trekkers. Whether with or without a rucksack, the shoulder area is specifically designed so that carrying straps do not rub.

The 3D-BionicSphere® System is proven to be effective in the chest area, although here, a greater focus is placed on the insulation values of the 3D-BionicSphere® System than in the X-Bionic® Functional Underwear for the highly active sportsman or woman. As a result, the 3D-BionicSphere® System is integrated over a larger area and the insulating channels are more pronounced.

Eye-catching and new in the X-Bionic® Functional Underwear for Trekking is the highly flexible, honeycomb padding on the elbows and knees. They create distance between the outerwear and yet store up insulating layers of air in the gaps, with every movement. The unique honeycomb structure gives knees and elbows unrestricted freedom of movement at any time, it can be stretched and twisted 360°; it protects joints from chilling and supports fast, spontaneous movements.

The X-Bionic® Trekking Accumulator™ has been adapted to meet the needs of walkers in every detail - from the choice of materials to the structure of the individual elements. The warming and protecting features and, above all, the well-insulated shoulder sections make this underwear a must for outdoor enthusiasts.

The X-Bionic® Trekking Accumulator™ is a revolution in outdoor wear. It helps you adapt to the external conditions, whatever the weather. Thanks to the 3D-BionicSphere® System, X-Bionic® Functional Underwear is the only underwear to cool you down when you perspire and warm you up when you’re cold. This unique, new kind of technology has already been recognized with an international patent and is now moving into the trekking clothing market.

Technology down to the smallest detail.
Sizes: Women: Sizes: Men:
XS = 34-38 S/M = 44-48
S/M = 38-44 L/XL = 50-54
L/XL = 44-50 XXL = 56-58

Custom made colours available on request. Minimum quantities apply.

X-Bionic® Energy Accumulator™ for Hunters

Many national biathlon teams wear X-Bionic® Functional Underwear. Accurate shooting can very often mean the difference between winning and losing. Your experience with freedom of movement of the arms and shoulders when shooting has been taken and used in the development of the X-Bionic® Energy Accumulator™ for hunters.

X-Bionic® Energy Accumulator™ for Sailors

When sailing, you are literally exposed to ‘wind and weather’. The X-Bionic® Energy Accumulator™ for Sailors offers this protection against the weather. Zones have also been incorporated which regulate heat and moisture when wearing a life jacket and underneath the holding straps. The pants are high-cut so that all-round protection remains guaranteed for all movements carried out in a sitting position.

X-Bionic® Energy Accumulator™ for Riders

The saddle and horse set particular demands on the underwear when riding. Special padding has been incorporated in the X-Bionic® Energy Accumulator™ series for riders. The underwear offers precise protection without eliminating contact with the horse.
**Technical composition:**
- 69% SkinNODOR®
- 1% Polyamide
- 9% Elastane
- 1% Mythlan™

**Material:**
- 90% Polyamide
- 9% Elastane
- 1% Polypropylene

**Sizes:**
- S/M    L/XL    XXL

**Article code:** I 0100
**Colour code:** X39

**ISO-Shoulder™**
**3D-BionicSphere®-System**
**Elbow Pads™**
**AirConditioning Channel®**

**SkinNODOR® Nano-Technology**

**X-Shirt Long Sleeves**
**Men**

**The Army’s seal of quality**
Technical composition:
69% SkinNODOR®
1% Polyamide
9% Elastane
1% Mythlan™

Material
90% Polyamide
9% Elastane
1% Polypropylene

Sizes:
S/M    L/XL    XXL

Marine/Pearl Grey
Article code: I 00100
Colour code: XB4

Charcoal/Anthracite
Article code: I 20100
Colour code: XH5

Sizes:
S/M    L/XL    XXL

Custom made colours available on request. Minimum quantities apply.

Highly elastic and breathable... a shirt not only for sport.

SkinNODOR®
is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also ‘breathes’, ensuring an excellent fit.

Increase of bacteria population

SkinNODOR®
is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also ‘breathes’, ensuring an excellent fit.
X-Shirt Short Sleeves
Men

Technical composition:
64% SkinNODOR®
4% Polyamide
8% Elastane
9% Mythlan™

Material
90% Polyamide
8% Elastane
2% Polypropylene

Sizes:
S/M    L/XL    XXL

Article code: I 0052
Colour code: X39

ISO-Shoulder™
3D-BionicSphere®-System
AirConditioning Channel®

SkinNODOR®
Nano-Technology

Black/Orange

4

The Army’s seal of quality
**Technical composition:**
- 64% SkinNODOR®
- 4% Polyamide
- 8% Elastane
- 2% Mythlan™

**Material**
- 90% Polyamide
- 8% Elastane
- 2% Polypropylene

Sizes:
- S/M
- L/XL
- XXL

**Marine/Pearl Grey**
- Article code: I 20052
- Colour code: XB4

**Technical composition:**
- 64% SkinNODOR®
- 24% Polyamide
- 8% Elastane
- 2% Mythlan™

**Material**
- 90% Polyamide
- 8% Elastane
- 2% Polypropylene

Sizes:
- S/M
- L/XL
- XXL

**White/Cobalt Blue**
- Article code: I 20052
- Colour code: XA1

**The 3D-BionicSphere®-System**
on the chest and back
starts to cool when you perspire.
No shirt to hide... Also perfect as
a T-Shirt in the summer.

**SkinNODOR®** is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic - a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also "breathes", ensuring an excellent fit.

Custom made colours available on request. Minimum quantities apply.
X-Singlet
Men

Material
90% Polyamide
8% Elastane
3% Polypropylene

Sizes:
S/M    L/XL    XXL

Article code: I 0053
Colour code: X39

Technical composition:
66% SkinNODOR®
4% Polyamide
8% Elastane
2% Mythlan™

Material
90% Polyamide
8% Elastane
2% Polypropylene

Sizes:
S/M    L/XL    XXL

Article code: I 20053
Colour code: X39

Black/Orange

3D-BionicSphere®-System

AirConditioning Channel®

SkinNODOR®

Nano-Technology

The Army's seal of quality.
The proven 3D-BionicSphere®-System ensures cooling and regulates perspirationas in forms.

SkinNODOR® is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also breathes, ensuring an excellent fit.

Custom made colours available on request. Minimum quantities apply.
Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
S/M    L/XL    XXL

Article code: I 0099
Colour code: X39

3D-BionicSphere®-System
ISO-Blocker™
Two-Step Front

Technical composition:
68% SkinNODOR®
20% Polyamide
8% Elastane
4% Mythlan™

Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
S/M    L/XL    XXL

Article code: I 20099
Colour code: X39

SkinNODOR®
Nano-Technology

Black/Orange

The Army's seal of quality.

Two-Step Front
3D-BionicSphere®-System
ISO-Blocker™

SkinNODOR®
Nano-Technology

28
Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
S/M    L/XL    XXL

Technical composition:
68% SkinNODOR®
20% Polyamide
8% Elastane
4% Mythlan™

SkinNODOR®
is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also ‹breathes›, ensuring an excellent fit.

Characteristics

Charcoal/Anthracite
Article code: I 0099
Colour code: XHS
Sizes: S/M L/XL XXL

Technical composition:
58% Polyamide
8% Elastane
4% Polypropylene

Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes: S/M L/XL XXL

Marine/Pearl Grey
Article code: I 0099
Colour code: XH5
Sizes: S/M L/XL XXL

Increase of bacteria population
without treatment
natural bacterial level
SkinNODOR® bactericide

With controlled climate technology, thanks to the 3D-BionicSphere®-System.

Custom made colours available on request. Minimum quantities apply.

Sizes: Women: X/S = 34-38 S/M = 40-44 L/XL = 46-50
Sizes: Men: S/M = 44-48 L/XL = 50-54 XXL = 56-58
Pants Medium
Men

Technical composition:
68% SkinNODOR®
20% Polyamide
8% Elastane
4% Mythlan™

Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
S/M  L/XL  XXL

Article code: I 0098
Colour code: X39

Black/Orange

BIONIC ENERGIZER™
MID.IMPACT

Two-Step Front
3D-BionicSphere®-System

ISO-Blocker™

3D-BionicSphere®-System

SkinNODOR®
Nano-Technology

The Army's seal of quality.

red dot design award
winner 2006

Approved

If product design award
2006

Nano-Technology

XxBIONIC®
FUNCTIONAL UNDERWEAR

30
Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
S/M    L/XL    XXL

The proven 3D-BionicSphere®-System ensures cooling and regulates perspiration as in forms.

Technical composition:
68% SkinNODOR®
20% Polyamide
8% Elastane
4% Mythlan™

Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
S/M    L/XL    XXL

Custom made colours available on request. Minimum quantities apply.

SkinNODOR® is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also ‹breathes›, ensuring an excellent fit.
X-Boxer Shorts

Men

Technical composition:
90% SkinNODOR®
9% Elastane
1% Mythlan™

Material
90% Polyamide
9% Elastane
1% Polypropylene

Sizes:
S/M    L/XL    XXL

Article code: I 0054
Colour code: X39

3D-BionicSphere®-
System am Steiß

SkinNODOR®
Nano-Technology

Black/Orange
Marine/Pearl Grey

- Material: 90% Polyamide, 9% Elastane, 1% Polypropylene
- Sizes: S/M, L/XL, XXL
- Article code: I 0054
- Colour code: XB4

Climate active material ensures the best wearing comfort, even on hot days.

White/Cobalt Blue

- Material: 90% SkinNODOR®, 9% Elastane, 1% Mythlan™
- Sizes: S/M, L/XL, XXL
- Article code: I 0054
- Colour code: XA1

SkinNODOR®
is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also "breathes", ensuring an excellent fit.

Graph: Increase of bacteria population
- Without treatment: Natural bacterial level SkinNODOR®
- SkinNODOR® bacteria level
- Time: 0h, 1h, 2h, 3h, 4h, 5h

Custom made colours available on request. Minimum quantities apply.
X-Shirt Long Sleeves

Women

Technical composition:
- 69% SkinNODOR®
- 21% Polyamide
- 9% Elastane
- 1% Mythlan™

Material
- 90% Polyamide
- 9% Elastane
- 1% Polypropylene

Sizes:
- XS
- S/M
- L/XL

Article code: I 0103
Colour code: X39

SkinNODOR®
Nano-Technology

The Army's seal of quality.

3D-BionicSphere® System
Underarm Sweat Traps™
AirConditioning Channel™

Black/Orange

X-Shirt Long Sleeves

Women
With controlled climate technology, thanks to the 3D-BionicSphere®–System.

**SkinNODOR®**

is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed **SkinNODOR®** begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, **SkinNODOR®** is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. **SkinNODOR®** is exceptionally soft and it also "breathes" ensuring an excellent fit.
**BIONIC ENERGIZER™**

**MID.IMPACT**

**X-Shirt Short Sleeves**

**Women**

**Material**
- 90% Polyamide
- 8% Elastane
- 2% Polypropylene

**Sizes:**
- XS
- S/M
- L/XL

**Article code:** I 0058

**Colour code:** X39

**ISO Shoulder™**

**3D-BionicSphere® System**

**Underarm Sweat Traps™**

**AirConditioning Channel®**

**Technical composition:**
- 66% SkinNODOR®
- 4% Polyamide
- 8% Elastane
- 2% Mythlan™

**Material**
- 90% Polyamide
- 8% Elastane
- 2% Polypropylene

**SkinNODOR®**

**Nano-Technology**

**Black/Orange**

**Article code:** I 20058
**Colour code:** X39

**The Army's seal of quality.**

**36**
Technical composition:

SkinNODOR®

66% SkinNODOR®
24% Polyamide
8% Elastane
2% Mythlan™

Material

90% Polyamid
8% Elastane
2% Polypropylene

Sizes:
XS  S/M  L/XL

Article code: I 0058
Colour code: XB3

SkinNODOR®

is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic - a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also "breathes", ensuring an excellent fit.

In 4 colours...
A shirt which can also be worn «on top».
**BIONIC ENERGIZER™**

**MID.IMPACT**

X-Singlet with integrated bra

**Women**

**Material**
- 90% Polyamide
- 8% Elastane

Sizes:
- XS
- S/M
- L/XL

**Article code:** I 0059

**Colour code:** X39

**3D-BionicSphere® System**

**Technical composition:**
- 69% SkinNODOR®
- 1% Polyamide
- 8% Elastane
- 2% Mythlan™

**Integrates Bra & 3D-BionicSphere® System**

**Body AirConditioning Channel®**

**SkinNODOR®**

**Nano-Technology**

**Integrated Bra & 3D-BionicSphere® System**

**Material**
- 90% Polyamide
- 8% Elastane
- 2% Polypropylene

**Sizes:**
- XS
- S/M
- L/XL

**Article code:** I 20059

**Colour code:** X39

**Black/Orange**

**The Army’s seal of quality.**
SkinNODOR® is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also "breathes", ensuring an excellent fit.

Technical composition:

**Sky Blue/Marine**
- Material: 90% Polyamide, 8% Elastane, 2% Polypropylene
- Sizes: XS, S/M, L/XL
- Article code: I 0059
- Colour code: XB5

**Marine/Sky Blue**
- Material: 90% Polyamide, 8% Elastane, 2% Polypropylene
- Sizes: XS, S/M, L/XL
- Article code: I 0059
- Colour code: X56

**White/Sky Blue**
- Material: 90% Polyamide, 8% Elastane, 2% Polypropylene
- Sizes: XS, S/M, L/XL
- Article code: I 0059
- Colour code: XB3

The integrated bra makes it comfortable to wear.
Pants Long
Women

BIONIC ENERGIZER™
MID.IMPACT

Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
XS    S/M    L/XL

Article code: I 0104
Colour code: X39

ISO-Blocker™

Technical composition:
68% SkinNODOR®
20% Polyamide
8% Elastane
4% Mythlan™

Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
XS    S/M    L/XL

Article code: I 20104
Colour code: X39

3D-BionicSphere®
System

Black/Orange

SkinNODOR®
Nano-Technology

Nano-Technology

The Army’s seal of quality.

red dot design award
winner 2006

approved
The Army’s seal of quality.

product design award
2006

40
**Perfect fit. Outstanding comfort.**

With recognized 3D-BionicSphere® System.

---

**Material**

88% Polyamide
8% Elastane
4% Polypropylene

**Sizes:**

XS    S/M    L/XL

---

**SkinNODOR®**

is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic - a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also ‹breathes›, ensuring an excellent fit.

---

**Technical composition:**

68% SkinNODOR®
20% Polyamide
8% Elastane
4% Polypropylene

**Sizes:**

XS    S/M    L/XL

---

**Article code:** I 0104

**Colour code:** XB5

---

**Article code:** I 0104

**Colour code:** XB3

---

**Increase of bacteria population**

without treatment
natural bacterial level
SkinNODOR®

---

Custom made colours available on request. Minimum quantities apply.
Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
XS    S/M    L/XL

Article code: I 0105
Colour code: X39

Technical composition:
68% SkinNODOR®
20% Polyamide
8% Elastane
4% Mythlan™

Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
XS    S/M    L/XL

ISO-Blocker™

SkinNODOR®
Nano-Technology

Black/Orange

Article code: I 20105
Colour code: X39

3D-BionicSphere®
System

The Army’s seal of quality.

Our pants are made with high-quality materials and are designed to provide comfort and functionality.

42
Material
88% Polyamide
8% Elastane
4% Polypropylene

Sizes:
XS    S/M    L/XL

Perfect fit. Outstanding comfort.
With recognized 3D-BionicSphere® System.

Technical composition:
68% SkinNODOR®
20% Polyamide
8% Elastane
4% Mythlan™

SkinNODOR®
is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic - a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also "breathes", ensuring an excellent fit.

Increase of bacteria population

with treatment
bactericide

0h 1h 2h 3h 4h 5h

Custom made colours available on request. Minimum quantities apply.
X-Boxer Shorts

Women

Material
- 90% Polyamide
- 9% Elastane
- 1% Polypropylene

Sizes:
- XS
- S/M
- L/XL

Article code: I 0060
Colour code: X39

3D-BionicSphere® System

Technical composition:
- 91% SkinNODOR®
- 8% Elastane
- 1% Mythlan™

Material
- 90% Polyamide
- 9% Elastane
- 1% Polypropylene

SkinNODOR® Oberfläche

Black/Orange

Article code: I 20060
Colour code: X39

The Army’s seal of quality.
Perfect fit. Outstanding comfort.
With recognized 3D-BionicSphere® System.

SkinNODOR®

is a climate-active nano-filament which contains an inorganic bacteriostatic agent. Only when the ions are slowly released, activated by body heat, does the highly-developed SkinNODOR® begin to take effect. These ions inhibit the reproduction of micro-organisms. As a consequence, SkinNODOR® is bacteriostatic – a growth inhibitor. It is not bactericidal (it does not kill bacteria). Therefore, allergic reactions are ruled out. The ions contained in the fibre are continuously released and are available in quantities which far outstrip the life-expectancy of traditional fibres. The supply of ions cannot be exhausted by normal wear or washing. SkinNODOR® is exceptionally soft and it also “breathes”, ensuring an excellent fit.

**Technical composition:**
91% SkinNODOR®
8% Elastane
1% Mythlan™

**Material:**
90% Polyamide
9% Elastane
1% Polypropylene

**Sizes:**
XS S/M L/XL

**Article code:** I 20650
**Colour code:** X56

---

**Technical composition:**
91% SkinNODOR®
8% Elastane
1% Mythlan™

**Material:**
90% Polyamide
9% Elastane
1% Polypropylene

**Sizes:**
XS S/M L/XL

**Article code:** I 20650
**Colour code:** X83

---

Custom made colours available on request. Minimum quantities apply.

---

Functional underwear
X-Shirt Short Sleeves
Men

Technical composition:
98% Xitan™
1% Mythlan™
1% Elastane

Material
98% Polyamide
1% Polypropylene
1% Elastane

Sizes:
S/M    L/XL   XXL

Article code: I 0067
Colour code: X39

Black/Orange

ISO-Pads™
3D-BionicSphere® System

3D-BionicSphere® System
Underarm SweatTraps™
AirConditioning Channel™

Xitan™

The Army's seal of quality.
XITAN™

the new high-tech fibre. Offering the grip of cotton but with a performance that far outstrips the natural fibre. Xitan™ is lighter and softer than cotton while offering far greater respiration qualities. In comparison with cotton, Xitan™ – and the fibres themselves – absorbs practically no water and is therefore water-resistant from the outside. In contrast to cotton, Xitan™ will never stick to the skin like a wet rag and therefore it also dries extremely quickly after exercise.
X-Singlet
Men

Material
98% Polyamide
1% Polypropylene
1% Elastane

Sizes:
S/M    L/XL   XXL

Article code: I 0068
Colour code: X39

3D-BionicSphere®
System

Xitan™

Technical composition:
98% Xitan™
1% Mythlan™
1% Elastane

Material
98% Polyamide
1% Polypropylene
1% Elastane

Sizes:
S/M   L/XL   XXL

Article code: I 0068
Colour code: X39

3D-BionicSphere®
System

AirConditioning
Channel®

Xitan™

The Army's seal of quality

48
The proven 3D-BionicSphere® System ensure cooling and regulates perspiration as it forms.

XITAN™
the new high-tech fibre. Offering the grip of cotton but with a performance that far outstrips the natural fibre. Xitan™ is lighter and softer than cotton while offering far greater respiration qualities. In comparison with cotton, Xitan™ – and the fibres themselves – absorbs practically no water and is therefore water-resistant from the outside. In contrast to cotton, Xitan™ will never stick to the skin like a wet rag and therefore it also dries extremely quickly after exercise.
X-Boxer Shorts

Men

Material
93% Polyamide
6% Elastane
1% Polypropylene

Sizes:
S/M    L/XL   XXL

Article code: I 0078
Colour code: X39

3D-BionicSphere® System

Xitan™

Technical composition:
93% Xitan™
6% Elastane
1% Mythlan™

Material
93% Polyamide
6% Elastane
1% Polypropylene

Sizes:
S/M    L/XL   XXL

Black/Orange
Article code: I 20078
Colour code: X39

3D-BionicSphere® System

AirConditioning Channel®
Material
93% Polyamide
6% Elastane
1% Polypropylene
Sizes:
S/M    L/XL   XXL

Technical composition:
93% Xitan™
6% Elastane
1% Mythlan™

Article code: I 20078
Colour code: XA2

Black/Pearl Grey

Material
93% Polyamide
6% Elastane
1% Polypropylene
Sizes:
S/M    L/XL   XXL

Technical composition:
93% Xitan™
6% Elastane
1% Mythlan™

Article code: I 20078
Colour code: X87

Anthracite/ Pearl Grey

XITAN™
the new high-tech fibre. Offering the grip of cotton but with a performance that far outstrips the natural fibre. Xitan™ is lighter and softer than cotton while offering far greater respiration qualities. In comparison with cotton, Xitan™ – and the fibres themselves – absorbs practically no water and is therefore water-resistant from the outside. In contrast to cotton, Xitan™ will never stick to the skin like a wet rag and therefore it also dries extremely quickly after exercise.

Highly elastic and breathable...
...not only for sports.

Sizes: Women:
XS = 34-38
S/M = 40-44
L/XL = 46-50
XXL = 56-58

Sizes: Men:
S/M = 44-48
L/XL = 50-54
XXL = 56-58

Custom made colours available on request. Minimum quantities apply.
X-Shirt Short Sleeves

Women

Material
98% Polyamide
1% Polypropylene
1% Elastane

Sizes:
XS    S/M    L/XL

Article code: I 0071
Colour code: X39

3D-BionicSphere® System
Underarm Sweat Traps™
AirConditioning Channel®
ISO-Pads™

Technical composition:
98% Xitan™
1% Mythlan™
1% Elastane

Xitan™

The Army's seal of quality.

Black/Orange

Article code: I 0071
Colour code: X39

ISO-Pads™
3D-BionicSphere® System

X-Shirt Short Sleeves

Women

BIONIC VITALIZER™
LOW IMPACT

52

XBIONIC®
FUNCTIONAL UNDERWEAR
We have very specific ideas about the perfect underwear. That’s why we placed particular importance on a high degree of elasticity the best finish and innovative material: And this is one of the results.

**XITAN™**

the new high-tech fibre. Offering the grip of cotton but with a performance that far outstrips the natural fibre. Xitan™ is lighter and softer than cotton while offering far greater respiration qualities. In comparison with cotton, Xitan™ – and the fibres themselves – absorbs practically no water and is therefore water-resistant from the outside. In contrast to cotton, Xitan™ will never stick to the skin like a wet rag and therefore it also dries extremely quickly after exercise.
The 3D-BionicSphere®-System on the chest and back starts to cool when you perspire. No shirt to hide... Also perfect as a T-Shirt in the summer.

XITAN™
the new high-tech fibre. Offering the grip of cotton but with a performance that far outstrips the natural fibre. Xitan™ is lighter and softer than cotton while offering far greater respiration qualities. In comparison with cotton, Xitan™ – and the fibres themselves – absorbs practically no water and is therefore water-resistant from the outside. In contrast to cotton, Xitan™ will never stick to the skin like a wet rag and therefore it also dries extremely quickly after exercise.

Black/Pearl Grey

Material
98% Polyamide
1% Polypropylene
1% Elastane

Sizes: XS S/M L/XL

Article code: I 20072
Colour code: X02

White/Sky Blue

Material
98% Polyamide
1% Polypropylene
1% Elastane

Sizes: XS S/M L/XL

Article code: I 20072
Colour code: X83

White/Pink

Material
98% Polyamide
1% Polypropylene
1% Elastane

Sizes: XS S/M L/XL

Article code: I 20072
Colour code: X84

VITAL WOMEN
Sizes:
Women:
X/S = 34-38
S/M = 40-44
L/XL = 46-50

Sizes:
Men:
S/M = 44-48
L/XL = 50-54
XXL = 56-58

Custom made colours available on request. Minimum quantities apply.
X-Boxer Shorts

Women

Material
93% Polyamide
6% Elastane
1% Polypropylene

Sizes:
XS    S/M    L/XL

Article code: I 0075
Colour code: X39

Technical composition:
93% Xitan™
6% Elastane
1% Mythlan™

Xitan™
Oberfläche

Material
93% Polyamide
6% Elastane
1% Polysoprene

Sizes:
XS    S/M    L/XL

Article code: I 0075
Colour code: X39

3D-BionicSphere®
System

The Army's seal of quality.
XITAN™
the new high-tech fibre. Offering the grip of cotton but with a performance that far outstrips the natural fibre. Xitan™ is lighter and softer than cotton while offering far greater respiration qualities. In comparison with cotton, Xitan™ – and the fibres themselves – absorbs practically no water and is therefore water-resistant from the outside. In contrast to cotton, Xitan™ will never stick to the skin like a wet rag and therefore it also dries extremely quickly after exercise.

Custom made colours available on request. Minimum quantities apply.
YOUR MULTIFUNCTIONAL COMPANION FOR EVERY SITUATION

**BIONIC® T-Shirt + Boxer Shorts Men**

**BIONIC® T-Shirt Men**
- Article code: I 20080
- Colour code: X39
- Material: 95% Polyamide, 5% Elastane
- Sizes: XS, S/M, L/XL, XXL
- Technical composition: 71% SkinNODOR®, 21% Polyamide, 7% Elastane, 1% Mythlan™

**Article code: I 0091**
- Colour code: X39
- Material: 95% Polyamide, 5% Elastane
- Sizes: XS, S/M, L/XL, XXL
- Technical composition: 71% SkinNODOR®, 21% Polyamide, 7% Elastane, 1% Mythlan™

**Boxer Shorts**
- Article code: I 20091
- Colour code: X39
- Material: 95% Polyamide, 5% Elastane
- Sizes: XS, S/M, L/XL, XXL
- Technical composition: 71% SkinNODOR®, 21% Polyamide, 7% Elastane, 1% Mythlan™

- White/Pearl Grey
  - Article code: I 20080
  - Colour code: X32
  - Sizes: XS, S/M, L/XL, XXL
- Marine/Pearl Grey
  - Article code: I 20080
  - Colour code: XB4
  - Sizes: XS, S/M, L/XL, XXL
- Black/Pearl Grey
  - Article code: I 20080
  - Colour code: XA2
  - Sizes: XS, S/M, L/XL, XXL

Easy on the skin. Soft and breathable during sports. Odourless thanks to bacteriostatic SkinNODOR® and stylish for both—business and leisure.

The 24/7 BIONIC® T-Shirt Men is underwear and T-Shirt in one. Performing 24 hours a day, 7 days a week.

24/7 BIONIC® Boxer Shorts are available in the same colours as the 24/7 BIONIC® T-Shirts.
PRODUCTS WITH THE «X» SET THE PATTERN WORLDWIDE. MORE THAN 167 AWARDS WILL CONvince YOU TOO.

<table>
<thead>
<tr>
<th>Award</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Tier</td>
<td>Perfect season (Speed One Ultralight)</td>
</tr>
<tr>
<td>Gold</td>
<td>Perfect summer (Speed One)</td>
</tr>
<tr>
<td>Silver</td>
<td>All &quot;very well&quot; (Speed One Ultralight)</td>
</tr>
<tr>
<td>Bronze</td>
<td>...the most modern... (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>The best socks of all time (Energocellulose)</td>
</tr>
<tr>
<td>Silver</td>
<td>X-Socks® - absolute (Speed One Ultralight)</td>
</tr>
<tr>
<td>Bronze</td>
<td>Feeling in the shoe - very good! (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>The skinAdventures® - top product.</td>
</tr>
<tr>
<td>Silver</td>
<td>Protect fit® (Speed One Ultralight)</td>
</tr>
<tr>
<td>Bronze</td>
<td>Always good technology (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>Brilliant technology® (Speed One Ultralight)</td>
</tr>
<tr>
<td>Silver</td>
<td>Recommendable (Running Light)</td>
</tr>
<tr>
<td>Bronze</td>
<td>High-Tech for the (Running Light)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>No more wet feet - very good! (Energocellulose)</td>
</tr>
<tr>
<td>Silver</td>
<td>No more wet feet - very good! (Energocellulose)</td>
</tr>
<tr>
<td>Bronze</td>
<td>No more wet feet - very good! (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>Perfect fit® (Speed One Ultralight)</td>
</tr>
<tr>
<td>Silver</td>
<td>High-Tech for the (Running Light)</td>
</tr>
<tr>
<td>Bronze</td>
<td>My body was in good hands... (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>Very good fit® (Speed One Ultralight)</td>
</tr>
<tr>
<td>Silver</td>
<td>Super sock® (Energocellulose)</td>
</tr>
<tr>
<td>Bronze</td>
<td>Extra warmth (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>Perfect and secure® (Speed One Ultralight)</td>
</tr>
<tr>
<td>Silver</td>
<td>These comfortable... (Speed One Ultralight)</td>
</tr>
<tr>
<td>Bronze</td>
<td>&quot;Very good&quot;... (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>Perfect and secure® (Speed One Ultralight)</td>
</tr>
<tr>
<td>Silver</td>
<td>All very well® (Speed One Ultralight)</td>
</tr>
<tr>
<td>Bronze</td>
<td>&quot;Very good&quot;... (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>The best cycling socks there are! (Biking Light)</td>
</tr>
<tr>
<td>Silver</td>
<td>...the most modern... (Energocellulose)</td>
</tr>
<tr>
<td>Bronze</td>
<td>Feel well in the shoe - very good! (Energocellulose)</td>
</tr>
<tr>
<td>Top Runner</td>
<td>&quot;Very good&quot;... (Energocellulose)</td>
</tr>
<tr>
<td>Silver</td>
<td>Perfect fit® (Speed One Ultralight)</td>
</tr>
<tr>
<td>Bronze</td>
<td>&quot;Very good&quot;... (Energocellulose)</td>
</tr>
</tbody>
</table>

THERE ISN’T ENOUGH SPACE FOR ALL OUR ACCOLADES ON THIS PAGE – PLEASE HAVE A LOOK ON THE BACK.
167 INTERNATIONAL AWARDS AND TEST VICTORIES FOR PRODUCTS WITH THE «X».

X-Technology R60 Swiss
Samstagernstrasse 45, CH-8832 Wollerau

X-Technology R&D Swiss
USA Patent No. 686151, Australian Patent No. 74686
Utility patent DE 0 0 940.3, utility patent DE 403 01 900.1.

www.X-BIONIC.com
www.X-SOCKS.com

29 national team members rely on the «X».

Swiss. Printed in Italy /© X-BIONIC

© /© X-BIONIC

Samstagernstrasse 45, CH-8832 Wollerau

X-Technology R&D Swiss
USA Patent No. 686151, Australian Patent No. 74686
Utility patent DE 0 0 940.3, utility patent DE 403 01 900.1.

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www.X-SOCKS.com

29 national team members rely on the «X».