

X-BIONIC® FUNCTIONAL BIKEWEAR

ORDERKATALOG

Jan Ullrich

Super athlete with 25 years in the sport. Overall winner of Tour de France, world champion in time trials, winner of Tour de Suisse, member of X-Bionic® research & development team.



X BIONIC
FUNCTIONAL BIKEWEAR

Jan Ullrich's physiological responses transformed into a new kind of state-of-the-art clothing. Professional cyclist Jan Ullrich is the bionic man in the X-Technology Research & Development Swiss team.

Physiological studies and performance tests provided the basis for research into new textile technology using Jan Ullrich as a bionic measuring instrument.

Jan Ullrich's experience of the needs and sensibilities of a top-ranked sportsman supplement the simulations and measurements performed by the computer. The computer provides expert interpretation and evaluation of the minutest changes in temperature. 25 years' experience training, building up muscle and fitness and competing - such are the things Jan Ullrich brings to his sport. For the first time ever, cyclists' clothing has been developed that warms you when you're cold, cools you down when you're hot and sweaty ...and breathes.

Flying in the face of 20 years of industry opinion, which dictates that sweat must be conducted away from the skin, X-BIONICS has become the first company actively to use sweat in sports clothing to cool the body down



X-BIONIC®

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BIONIC MEANS LEARNING FROM MOTHER NATURE...

Over millions of years, plants and animals have developed revolutionary ways of adapting to their environment. We modelled our Fennec™ Jersey on the desert fox.

The Fennec Jersey is the only shirt to have a built-in heat deflector.

Fennec

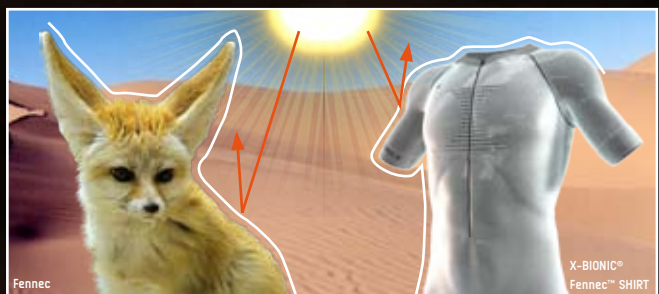
Nature has developed ways of surviving in some of the most hostile climates on the planet. The desert fox or fennec (*vulpes zerda*) is perfectly adapted to life in the desert. Its bright silver colour and the special structure of its coat allow it to reflect the heat of the desert sun. Radiated heat is reflected by the fox's thick coat, preventing its body from overheating.

The X-Bionic®-Team researchers have used the same principles in X-Bionic® Fennec™'s and developed the system even further.

Why the desert fox has such big ears

Most mammals cool their bodies by releasing heat through their skin (heat radiation and convection). As a result, large, tropical animals have a real problem regulating the temperature of their bodies. Their bodies' surface area is too small in relation to their volume, leaving them in constant danger of overheating. The elephant solves this problem with its ears. Its conspicuously large ear flaps - each measuring up to 2 square metres - are filled with an intricate network of capillaries through which blood is pumped at high speed just under the surface. The elephant need only fan with its ears, and the blood in the veins of the ears cools by up to 5 degrees Celsius. Its big ears increase the surface area of its body. The same goes for the desert fox; rather than helping it to hear better, its large ears help it to regulate its body temperature.

The 3D-BionicSphere® system uses the same, effective principle: the principle of surface enlargement. Warmth and moisture are spontaneously regulated by the 3D-BionicSphere® system - and this much quicker than nature alone would permit. The athlete retains his optimum temperature longer, and can perform at his best for much longer periods of time. See page 6 for how this works.



Nature's solution:

The desert fox's thick coat reflects radiated heat.

The X-Bionic® solution:

The unique Xitanit™ material reflects radiated heat from the surrounding atmosphere, creating a form of air-conditioning.



Die Lösung der Natur:

Unlike the polar fox with its small ears, the desert fox, with its thick coat of fur, uses its large ears to regulate its body temperature. The elephant, too, uses its ears to reduce body heat.

The X-Bionic® solution:

The principle of surface enlargement accelerates the cooling effect on sportsmen and women.

...X-BIONIC® MEANS SURPASSING THE NATURE.

The human body functions best at its normal temperature of 37°C.

Human strength and stamina is at its maximum at a body temperature of 37°C. During sports the body heats up considerably, and Mother Nature has invented a highly effective climate-control system - human sweat.

X-Bionic® boosts this natural climate-control system by exploiting the cooling function of a film of sweat instead of drying the perspiration off, as traditional clothing attempts to do.

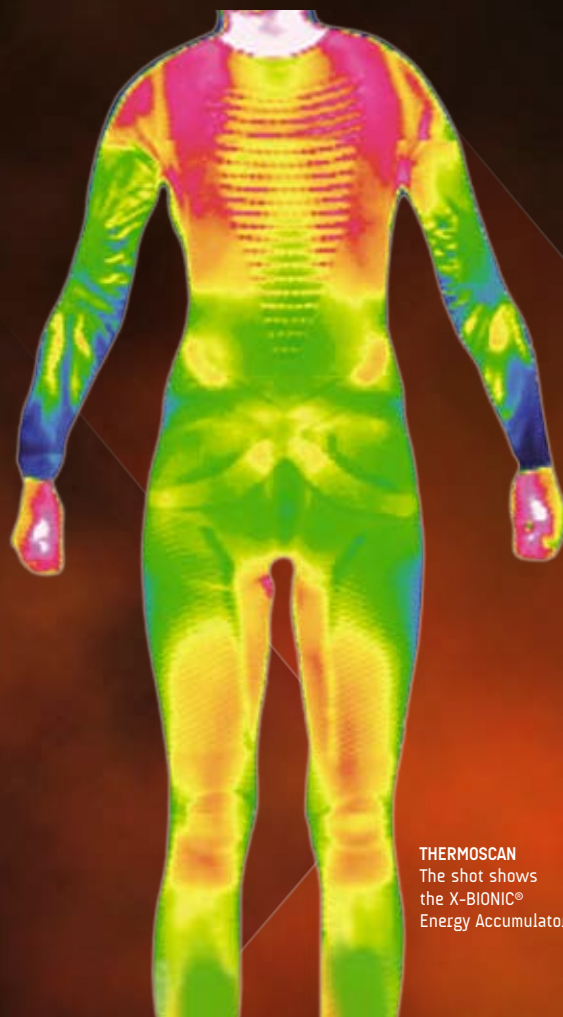
We are learning the lessons of nature.

X-BIONIC® also creates an effective insulation layer to prevent our body temperature from dropping too low during periods of rest.

X-BIONIC® has succeeded in developing a unique type of apparel that cools a perspiring body down and warms it when it is cold.

This goes one step further than nature.

X-BIONIC® is truly revolutionary. It is worn like a second skin, beats what Mother Nature can accomplish and is studded with features to optimise sporting performances.



THERMOSCAN
The shot shows
the X-BIONIC®
Energy Accumulator™

XITANIT™



A HEAT REFLECTOR:

The unique XITANIT™ fibre allows the outer surface of the jersey to reflect external radiant heat. Boiling hot sunshine, gleaming black asphalt and heated building facades are all environmental factors that raise a cyclist's temperature. This radiation is prevented from penetrating to the skin of the athlete and is reflected upwards. The effect is palpable; the jersey heats up on the outside but stays cool on the interior.

External sources of heat are neutralised.

For wearers of the jersey, the sensation is of riding a bike in the shade.



A sweat disperser:

The properties of Xitanit™ and the woven fabric distribute perspiration optimally over the whole surface of the body. As you sweat, the X-Bionic® system takes over and causes the moisture to evaporate. The process of evaporation reduces temperatures, creating a pleasant, all-over cooling effect.

The result: you expend less energy on keeping cool, even when indulging in strenuous physical exercise. Your energy and performance levels are sustained.



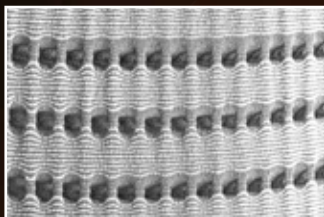
HEATPIPE CONSTRUCTION

The heat-pipe construction forms its own cooling microcosm. Sweat rises through the tiny tubes, is warmed on the heated exterior and evaporates. Evaporation creates a cooling effect. Some of the moisture condenses during the cooling process and falls back onto the skin at a lower temperature. Air circulation draws excess sweat to the surface, transforming it into a cooling agent.

-Stay cool without feeling wet.

REVOLUTIONARY: THE 3D-BIONICSPHERE® SYSTEM

Changes sweat into energy



Enlargement of the outer surface of the shirt



Same neckline, turned around (skin contact side)



3D-BionicSphere®-System

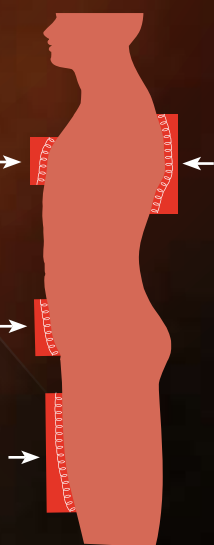
Keep sweat to a minimum, but keep it. Thus runs the slogan of X-Bionic®'s dedicated clothing line. Sweat is too precious a commodity to be dumped unceremoniously. Our skin needs moisture if it is to cool down. And not until the dampness on our skin evaporates does the cold of evaporation set in, which is what regulates our body temperature.

The patented 3D-BionicSphere system, unique in the world, is a ventilation system and network of channels that can rise up to 5mm above the surface of the skin. It leaves a thin film of sweat on the skin. As long as you continue to perspire you will be cooled effectively and in a natural way. When you stop sweating the insulation effect will swing into action. And the less energy you expend on regulating your own temperature, the more you have left for biking.

Warms you when you're freezing. Cools you when you're sweating. And breathes.

3D-BionicSphere®-System

Located on the chest, back, tummy and legs, the 3D-Bionic-Sphere® system works to keep you cool. No sensation of dampness or heat. No risk of cooling too much or too quickly during periods of rest. Only when the temperature of the body begins to rise and sweat begins to form does the cooling process kick in. If no sweat is broken, the insulation process is triggered. The 3D-BionicSphere® system only starts to cool your body if you are in the process of sweating.



During exertion

Sweat forms a fine film on the skin. Drops of perspiration are caught in SweatTraps™ and find their way to the Evaporation Surface Expander™. Evaporation occurs, triggered by three different levels of body temperature:

- at the surface of the skin, for the cooling-down process (❶),
- in the SweatTraps™ (❷),
- in the Evaporation Surface Expander™, where the final evaporation of moisture occurs (❸).



At rest

Cold air does not present a risk when body heat is dissipating: the air tubes on the inside (InnerAirChannels™) (❹) create a layer of insulation in the form of warmed air. When the body is at rest there is no sweat and the cooling process is interrupted. The air in both channels (❷ + ❹) then protects and warms, creating an aura of warmth around the body - an air-conditioned protective shell that keeps out the cold. The 3D-Bionic-Sphere® system starts to warm up when sweat is not being formed.



Wissenschaftliche Veranschaulichung

X-BIONIC® FENNEC RACE JERSEY (MEN)

«With the Fennec-Jersey it is like biking in the shadow.»

quote: Jan Ullrich

1 Structure

The properties of Xitanit™ and its weave distribute perspiration optimally over the whole surface of the body. As you sweat, the X-Bionic® Fennec™ Jersey takes over and causes the moisture to evaporate. The process of evaporation is associated with a fall in temperature, creating a pleasant, all-over cooling effect.

The result: you expend less energy on keeping cool, even when indulging in strenuous physical exercise. Your energy and performance levels are sustained. If sweat does not form, the insulation effect kicks in.

2 6-dimensional elasticity

Only knitwear can produce such a degree of elasticity. In addition, the ties on the X-Bionic® Fennec™ Shirts are attached using flat, highly elasticated seams in order to preserve the fundamental elasticity of fabric and knitwear. Wearers are guaranteed a perfect fit.

3 Underarm SweatTraps

The 3D-BionicSphere® sweat deposit system operates very effectively in the armpit area. The human body has up to 3 million sweat glands, with the armpits crowding in 300 of them per square centimetre. We all know what happens to cyclists' armpits when they are exerting themselves. No sooner has a cyclist begun to warm up, than the sweat begins to flow, but even before the drops form, the excess sweat is sucked into the Outer AirTraps™, ready for transfer to the Evaporation Surface Expander™ surface.

4 3D-BionicSphere® system in the chest area

Physiological studies have shown that the chest is one of the key areas to benefit from quick and efficient temperature conditioning. The fresh-air ventilation action of the 3D-BionicSphere® system cools the core temperature of the chest while preventing the body from feeling cold. Using a system similar to that of a canal lock, air within the special channels is kept temperate. Hot water vapour is drawn away by the dynamics of body temperature and fresh air takes its place. No draught is created; instead, the body is perfectly air-conditioned.

5 3D-BionicSphere® system for the back

The high metabolic rate of the cyclist and the resultant heat creates a circulation of air within the X-BIONIC® Shirt itself, air which is conducted to the back section of the garment, where the 3D-BionicSphere® ventilation channels go about their task of keeping the cyclist cool and dry. The apertures at the exterior of the 3D-BionicSphere® system are directly exposed to the wind, accentuating the Bernoulli effect (suppression) within the jersey. Temperature and humidity regulation takes place at various levels within the system, keeping the cyclist cool.

6 Pouches

The three practical pouches on the back are positioned in such a way as to provide maximum accessibility while not restricting the cyclist's freedom of movement. To ensure that objects being carried are not jolted out over rough ground, the openings to the pouches are elasticated.

7 Reflector

A reflector is located beneath the pouches, making for better visibility in traffic.

8 Asymmetric cut

The waistband is non-slip and cut lower at the base of the spine to ensure that the back remains protected when bent over in the cycling position.



X-BIONIC®
Trekking Fennec Polo
awarded with the
Outdoor Industry Award
2007

INDUSTRY
AWARD 2007

WHEN MOTHER NATURE LENDS A HAND

...the result can be some surprising technology. The revolutionary X-BIONIC® Fennec™ Jersey is modelled on principles used by the desert fox or fennec (*vulpes zerda*)



9 Perfectly adapted to the oppressive heat of the desert, the fennec's bright silver coat reflects the heat of the sun and its large ears regulate its body temperature, two extraordinary feats of evolution that have been borrowed by the designers of the X-Bionic® Fennec™ technology. While the Xitanit™ material reflects radiated heat the unique, patented 3D-BionicSphere system applies the principle of surface enlargement to the chest, back and armpit areas of the garment.

Warmth from outside is deflected, warmth from within is conducted efficiently to the exterior.

Climate regulation in its most perfect form.

Asphalt shimmering under the heat, baking building facades, blindingly hot sun... radiated heat is deflected before it reaches the skin of the cyclist.

X-BIONIC® FENNEC RACE JERSEY (MEN)



ARTICLE CODE:

020014

COLOURS:

XM4 Pearl grey/Silver

SIZES:

S / M / L / XL / XXL



ARTICLE CODE:

020014

COLOURS:

XM5 Anthracite/Silver

SIZES:

S / M / L / XL / XXL

XITANIT™ and SkinNODOR™

Two innovative materials provide comfort and help sustain the cyclist's efficiency and performance.

XITANIT™

- reflects radiated heat
- silver ions render garment bacteriostatic
- sweat management distributes perspiration around garment, maximising efficiency of evaporation process
- prolongs physical capacity of active cyclist



SkinNODOR®

Nano-Technology

Used in temperature and humidity control, SkinNODOR™ is a nanotech filament that incorporates an anorganic bacteriostatic component into its structure. Not until the body's temperature triggers the slow release of ions does SkinNODOR™ begin to take effect. The ions impede the spread of microorganisms, making SkinNODOR™ bacteriostatic, or bacteria-retarding. There is no possibility of wearers experiencing allergic reactions. Odours are also minimised.

X-BIONIC® FENNEC RACE JERSEY (WOMEN)

Not only a man's business. Heatdeflector technology for women.

1 Structure

The properties of Xitanit™ and its weave distribute perspiration optimally over the whole surface of the body. As you sweat, the X-Bionic® Fennec™ Shirt takes over and causes the moisture to evaporate. The process of evaporation is associated with a fall in temperature, creating a pleasant, all-over cooling effect.

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2007

INDUSTRY
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X-BIONIC® FENNEC RACE JERSEY (WOMEN)



ARTICLE CODE:
020010

COLOURS:
XM4 Pearl grey/Silver

SIZES:
XS / S / M / L / XL



ARTICLE CODE:
020010

COLOURS:
XN7 Honey/Gold

SIZES:
XS / S / M / L / XL

XITANIT™ and SkinNODOR™

Two innovative materials provide comfort and help sustain the cyclist's efficiency and performance.

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SkinNODOR®



Nano-Technology

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X-BIONIC® BIKE RACE JERSEY (MEN)

The all-rounder Jersey
...and thus from sleeveless to long-sleeved.

1 Structure

The properties of Xitanit™ and its weave distribute perspiration optimally over the whole surface of the body. As you sweat, the X-Bionic® Fennec™ Shirt takes over and causes the moisture to evaporate. The process of evaporation is associated with a fall in temperature, creating a pleasant, all-over cooling effect.

The result: you expend less energy on keeping cool, even when indulging in strenuous physical exercise. Your energy and performance levels are sustained. If sweat does not form, the insulation effect kicks in.

2 6-dimensional elasticity

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5 3D-BionicSphere® system for the back

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6 Pouches

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7 Reflector

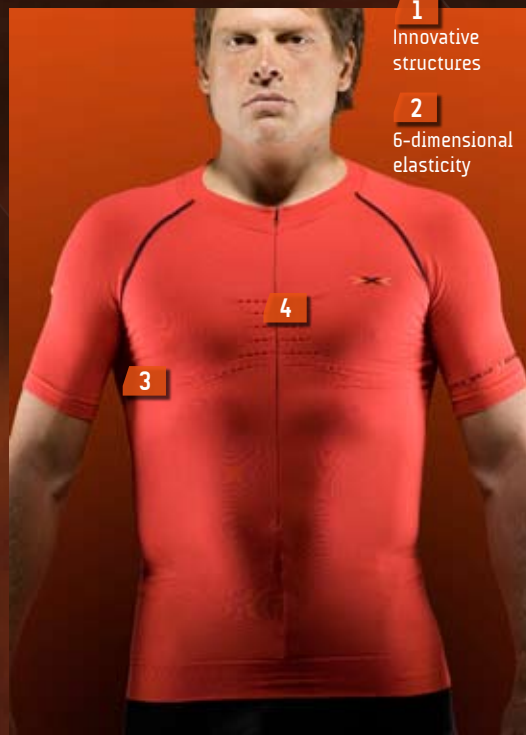
A reflector is located beneath the pouches, making for better visibility in traffic.

8 Asymmetric cut

The waistband is non-slip and cut lower at the base of the spine to ensure that the back remains protected when bent over in the cycling position.

1
Innovative
structures

2
6-dimensional
elasticity



9
Heightened per-
formance through
mid-impact com-
pression.



Red/Black
FARBCODE: X14

BOOSTS PERFORMANCE: MID-IMPACT COMPRESSION

Increased performance using compression and high-efficiency 3D-BionicSphere® cooling.

9 The Bike Race line uses Mid-Impact Technology™ to minimise muscle vibrations and provides support for muscles and joints. Specially designed for road racers, mid-impact compression is strong on body comfort and also stimulates cardiovascular circulation, improving the supply of blood to the muscles and resulting in higher performance.



X-BIONIC®
Bikewear RACE TRIKOT

X-BIONIC® BIKE RACE JERSEY (MEN) Available in 3 styles and 3 colours.



ARTICLE CODE:
020025

COLOURS:
X13 Black/Anthracite

SIZES:
S / M / L / XL / XXL



ARTICLE CODE:
020030

COLOURS:
X13 Black/Anthracite

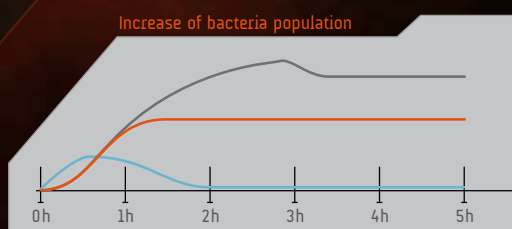
SIZES:
S / M / L / XL / XXL



ARTICLE CODE:
020020

COLOURS:
X13 Lemon/Black

SIZES:
S / M / L / XL / XXL



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.

X-BIONIC® BIKE RACE SHIRT (WOMEN)

The all-rounder for all seasons.
Available in three sleeve lengths.

1 Structure

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6 Pouches

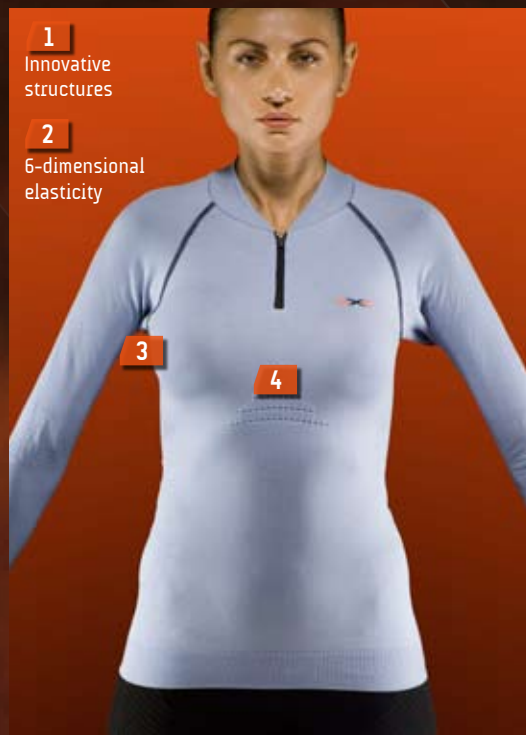
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7 Reflector

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8 Asymmetric cut

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X-BIONIC® BIKE RACE JERSEY (WOMEN)

Available in 3 styles and 3 colours.



ARTICLE CODE:
020039

COLOURS:
XR3 Skyway/Black

SIZES:
XS / S / M / L / XL



Lipstick Red/Black
COLOUR CODE: XP4



ARTICLE CODE:
020038

COLOURS:
X13 Black/Anthracite

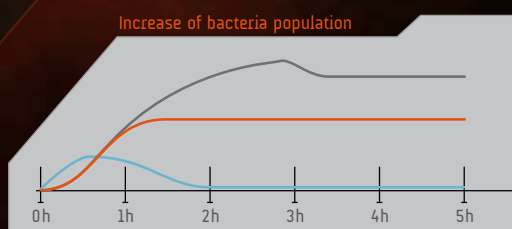
SIZES:
XS / S / M / L / XL



ARTICLE CODE:
020021

COLOURS:
X13 Black/Anthracite

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 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.

The X-BIONIC® MOUNTAINBIKE WEAR

Vincenzo Catalano our triple triathlete is testing
the X-BIONIC® Mountain biking Products





X-BIONIC® MOUNTAINBIKE TIRKOT (MEN)

The effective temperature and humidity control of the X-Bionic® Mountain Bike Shirt has a revitalising effect and helps cyclists save their energy.

1 Structure

The properties of Xitanit™ and its weave distribute perspiration optimally over the whole surface of the body. As you sweat, the X-Bionic® Fennec™ Shirt takes over and causes the moisture to evaporate. The process of evaporation is associated with a fall in temperature, creating a pleasant, all-over cooling effect.

The result: you expend less energy on keeping cool, even when indulging in strenuous physical exercise. Your energy and performance levels are sustained. If sweat does not form, the insulation effect kicks in.

2 6-dimensional elasticity

Only knitwear can produce such a degree of elasticity. In addition, the ties on the X-Bionic® Fennec™ Shirts are attached using flat, highly elasticated seams in order to preserve the fundamental elasticity of fabric and knitwear. Wearers are guaranteed a perfect fit.

3 Underarm SweatTraps

The 3D-BionicSphere® sweat deposit system operates very effectively in the armpit area. The human body has up to 3 million sweat glands, with the armpits crowding in 300 of them per square centimetre. We all know what happens to cyclists' armpits when they are exerting themselves. No sooner has a cyclist begun to warm up, than the sweat begins to flow, but even before the drops form, the excess sweat is sucked into the Outer AirTraps™, ready for transfer to the Evaporation Surface Expander™ surface.

4 3D-BionicSphere® system in the chest area

Physiological studies have shown that the chest is one of the key areas to benefit from quick and efficient temperature conditioning. The fresh-air ventilation action of the 3D-BionicSphere® system cools the core temperature of the chest while preventing the body from feeling cold. Using a system similar to that of a canal lock, air within the special channels is kept temperate. Hot water vapour is drawn away by the dynamics of body temperature and fresh air takes its place. No draught is created; instead, the body is perfectly air-conditioned.

5 3D-BionicSphere® system for the back

The high metabolic rate of the cyclist and the resultant heat creates a circulation of air within the X-BIONIC® Shirt itself, air which is conducted to the back section of the garment, where the 3D-BionicSphere® ventilation channels go about their task of keeping the cyclist cool and dry. The apertures at the exterior of the 3D-BionicSphere® system are directly exposed to the wind, accentuating the Bernoulli effect (suppression) within the jersey. Temperature and humidity regulation takes place at various levels within the system, keeping the cyclist cool.

6 Pouches

The three practical pouches on the back are positioned in such a way as to provide maximum accessibility while not restricting the cyclist's freedom of movement. To ensure that objects being carried are not jolted out over rough ground, the openings to the pouches are elasticated.

7 Reflector

A reflector is located beneath the pouches, making for better visibility in traffic.

8 Asymmetric cut

The waistband is non-slip and cut lower at the base of the spine to ensure that the back remains protected when bent over in the cycling position.



THE SIXTH DIMENSION OF ELASTICITY

The garment's loose fit allows you to retain your freedom of movement. The jersey fits snugly but does not restrict. 100% elastic in all directions.

9 ISO shoulder

Despite its high degree of elasticity, the material around the shoulder does not become thinner when stretched. The high-strength fabric makes for optimal heat retention around the shoulder, an area that is often quick to become cold.



GORE
X-BIONIC®
Bikewear RACE SHIRT

X-BIONIC® MOUNTAINBIKE JERSEY (MEN)

Available in 3 styles and 3 colours.



9

ARTICLE CODE:
020040

COLOUR:
XL4 Red/Black

SIZES:
S / M / L / XL / XXL



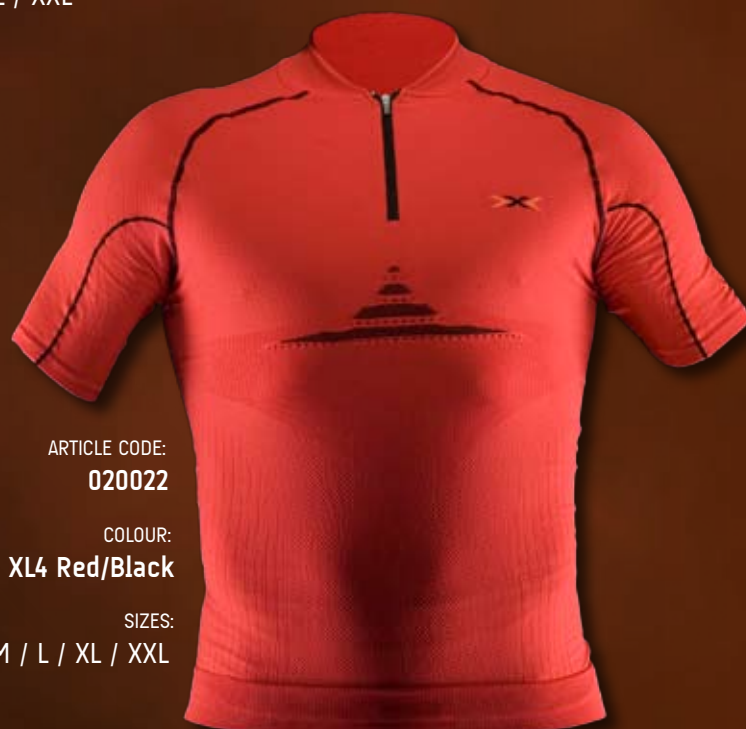
Black/Anthracite
FARBCODE: X13



ARTICLE CODE:
020033

COLOUR:
XXL3 Black/Lemon

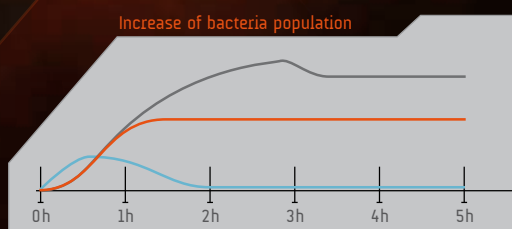
SIZES:
S / M / L / XL / XXL



ARTICLE CODE:
020022

COLOUR:
XL4 Red/Black

SIZES:
S / M / L / XL / XXL



without treatment

natural
bacteria level
SkinNODOR®

bactericide

SkinNODOR®

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X-BIONIC® MOUNTAINBIKE JERSEY (WOMEN)

The effective temperature and humidity control of the X-Bionic® Mountain Bike Shirt has a revitalising effect and helps cyclists save their energy.

1 Structure

The properties of Xitanic™ and its weave distribute perspiration optimally over the whole surface of the body. As you sweat, the X-Bionic® Fennec™ Shirt takes over and causes the moisture to evaporate. The process of evaporation is associated with a fall in temperature, creating a pleasant, all-over cooling effect.

The result: you expend less energy on keeping cool, even when indulging in strenuous physical exercise. Your energy and performance levels are sustained. If sweat does not form, the insulation effect kicks in.

2

6-dimensional elasticity

Only knitwear can produce such a degree of elasticity. In addition, the ties on the X-Bionic® Fennec™ Shirts are attached using flat, highly elasticated seams in order to preserve the fundamental elasticity of fabric and knitwear. Wearers are guaranteed a perfect fit.

3

Underarm SweatTraps

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5

3D-BionicSphere® system for the back

The high metabolic rate of the cyclist and the resultant heat creates a circulation of air within the X-BIONIC® Shirt itself, air which is conducted to the back section of the garment, where the 3D-BionicSphere® ventilation channels go about their task of keeping the cyclist cool and dry. The apertures at the exterior of the 3D-BionicSphere® system are directly exposed to the wind, accentuating the Bernoulli effect (suppression) within the jersey. Temperature and humidity regulation takes place at various levels within the system, keeping the cyclist cool.

6

Pouches

The three practical pouches on the back are positioned in such a way as to provide maximum accessibility while not restricting the cyclist's freedom of movement. To ensure that objects being carried are not jolted out over rough ground, the openings to the pouches are elasticated.

7

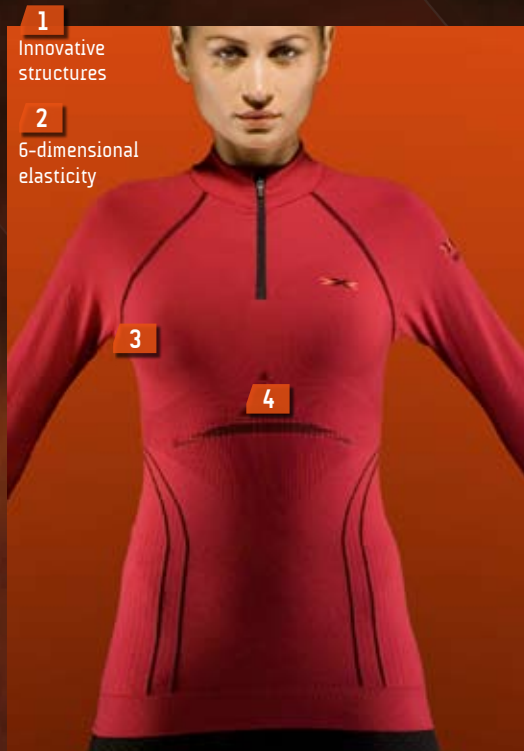
Reflector

A reflector is located beneath the pouches, making for better visibility in traffic.

8

Asymmetric cut

The waistband is non-slip and cut lower at the base of the spine to ensure that the back remains protected when bent over in the cycling position.



THE SIXTH DIMENSION OF ELASTICITY

The garment's loose fit allows you to retain your freedom of movement. The jersey fits snugly but does not restrict. 100% elastic in all directions.

9 ISO shoulder

Despite its high degree of elasticity, the material around the shoulder does not become thinner when stretched. The high-strength fabric makes for optimal heat retention around the shoulder, an area that is often quick to become cold.

EUROBIKE
AWARD
2007



GORE
X-BIONIC®
Bikewear RACE SHIRT

X-BIONIC® MOUNTAINBIKE JERSEY (WOMEN)

Available in 3 styles and 3 colours.



9

ARTIKELNUMMER:
020036

FARBCODE:
XP4 Lipstick Red/Black

GRÖSSEN:
XS / S / M / L / XL



ARTIKELNUMMER:
020023

FARBCODE:
XP4 Lipstick Red/Black

GRÖSSEN:
XS / S / M / L / XL



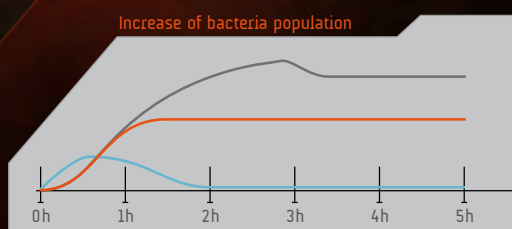
Black/Antracite
FARBCODE: X13



ARTIKELNUMMER:
020034

FARBCODE:
XR3 Skyway/Black

GRÖSSEN:
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 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.

X-BIONIC® BIB TIGHT SHORT (MAN)

The X-Bionic® padded seat: ergonomically designed for a perfect fit. Excellent relief for blood vessels and nerves.

1 Structure

The structure of the weave distributes perspiration optimally over the whole surface of the body. As you sweat, the X-Bionic® bib tights short take over and cause the moisture to evaporate. The process of evaporation is associated with a fall in temperature, creating a pleasant, all-over cooling effect.

The result: you expend less energy on keeping cool, even when indulging in strenuous physical exercise. Your energy and performance levels are sustained. If sweat does not form, the insulation effect kicks in.

2 6-dimensional elasticity

Only a knitted weave can achieve such high levels of elasticity. In addition the ties on the X-Bionic® bib tights short are attached using flat, highly elasticated seams in order to preserve the fundamental elasticity of the fabric and knitwear. Wearers are guaranteed a perfect fit.

3 Two-Step Front 3D-BionicSphere® system

The midriff area generates high amounts of perspiration. The 3D-BionicSphere® system in the lower stomach region of the bib tights stops the build-up of sweat as it happens, thereby preventing the development of sore areas in the initial phase of perspiration. The sweat that has been collected is then used in the cooling process. Excess sweat evaporates.

4 X-BIONIC® padded seat

This seamless, ergonomic padded seat is very flexible. The flexibility does not diminish with use owing to the way in which it has been incorporated into the bib itself. The pad is not sewn into the garment; the bib tight itself has been cut away to allow full integration of the seat. There is no superfluous layer of material between bib and saddle; this guarantees the best degree of moisture reduction possible and minimises the risk of chafing. The bioactive effect of the materials creates a comfortable, hygienic garment.

5 3D-BionicSphere® system for the thigh

Allows temperature and humidity regulation of the thigh area. A fine layer of moisture is distributed around the whole femoral muscle-group area. The drop in temperature associated with evaporation cools down the muscles. If sweat does not form, the insulation effect kicks in, helping to prevent the thigh muscles from becoming cold.

6 3D-BionicSphere® system for the back

The high metabolic rate of the cyclist, and the resultant heat, creates a circulation of air within the X-BIONIC® bib tight short themselves, air is conducted to the back section of the garment, where the 3D-BionicSphere® ventilation channels go about their task of keeping the cyclist cool and dry. The apertures at the exterior of the 3D-BionicSphere® system are exposed to environmental influences like wind, accentuating the Bernoulli effect (suppression) within the tight. Temperature and humidity regulation takes place at various levels within the system, keeping the cyclist cool.

7

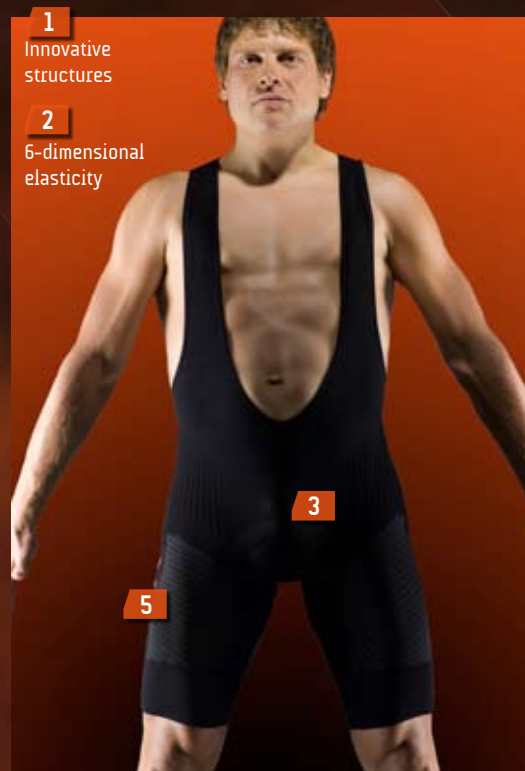
Innerlap AirConditioningZone™

The insides of the thighs are less sensitive to cold. This is the location of the Innerlap AirConditioningZone™, a section of delicate weave with nil insulating properties, allowing the thigh to cool down initially by means of ventilation. As soon as sweat begins to build up the efficiency of the cooling mechanism increases since this process is going on in direct proximity to the skin.

8

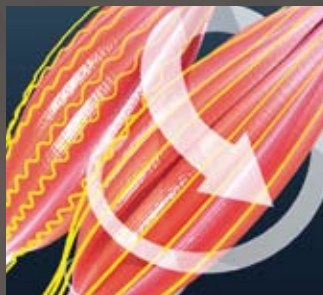
Non-slip leg grippers

Wide, leg-gripping ends adapt to every leg girth without riding up or pinching.



HIGHER PERFORMANCE THROUGH COMPRESSION AND COOLING.

The novel High Impact Technology™ series creates a light pressure on the body. Without restricting freedom of movement or influencing the fit, this pressure stimulates one's sense of the body. The entire movement process becomes more precise and efficient your muscle performance improves.



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™ stabilises muscles from the start. You conserve energy resources. Ideal conditions for high performance.

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.

X-BIONIC® BIB TIGHT SHORT (MAN)



ARTICLE CODE:
020032

COLOUR:
X13 Black/Anthracite

SIZES:
S / M / L / XL / XXL

The X-Bionic® padded seat: ergonomically designed for a perfect fit. Excellent relief for blood vessels and nerves

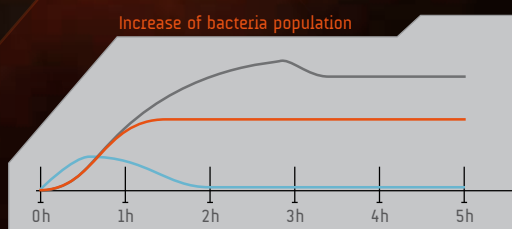
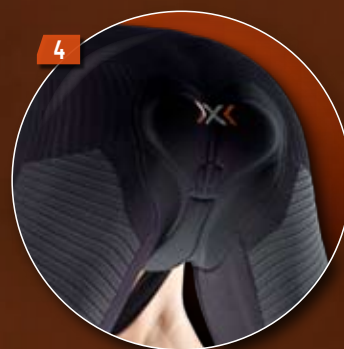
Also available as X-BIONIC® Tight Shorts.



ARTICLE CODE:
020037

COLOUR:
X13 Black/Anthracite

SIZES:
S / M / L / XL / XXL



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.

X-BIONIC® BIKING SHORTS (WOMAN)

The X-Bionic® padded seat: ergonomically designed for a perfect fit. Excellent relief for blood vessels and nerves.

1 Structure

The structure of the weave distributes perspiration optimally over the whole surface of the body. As you sweat, the X-Bionic® bib shorts take over and cause the moisture to evaporate. The process of evaporation is associated with a fall in temperature, creating a pleasant, all-over cooling effect.

The result: you expend less energy on keeping cool, even when indulging in strenuous physical exercise. Your energy and performance levels are sustained. If sweat does not form, the insulation effect kicks in.

2 6-dimensional elasticity

Only a knitted weave can achieve such high levels of elasticity. In addition the ties on the X-Bionic® bib shorts/tights are attached using flat, highly elasticated seams in order to preserve the fundamental elasticity of the fabric and knitwear. Wearers are guaranteed a perfect fit.

3 Two-Step Front 3D-BionicSphere® system

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5 3D-BionicSphere® system for the thigh

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6 3D-BionicSphere® system for the back

The high metabolic rate of the cyclist, and the resultant heat, creates a circulation of air within the X-BIONIC® bib shorts themselves, air is conducted to the back section of the garment, where the 3D-BionicSphere® ventilation channels go about their task of keeping the cyclist cool and dry. The apertures at the exterior of the 3D-BionicSphere® system are exposed to the wind, accentuating the Bernoulli effect (suppression) within the bib. Temperature and humidity regulation takes place at various levels within the system, keeping the cyclist cool.

7 Innerlap AirConditioningZone™

The insides of the thighs are less sensitive to cold. This is the location of the Innerlap AirConditioning Zone™, a section of delicate weave with nil insulating properties, allowing the thigh to cool down initially by means of ventilation. As soon as sweat begins to build up the efficiency of the cooling mechanism increases since this process is going on in direct proximity to the skin.

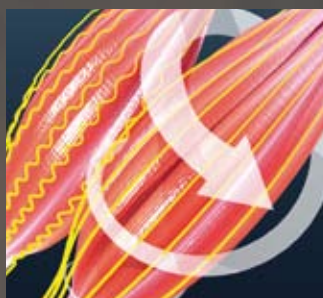
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X-BIONIC® BIKING SHORTS (WOMAN)



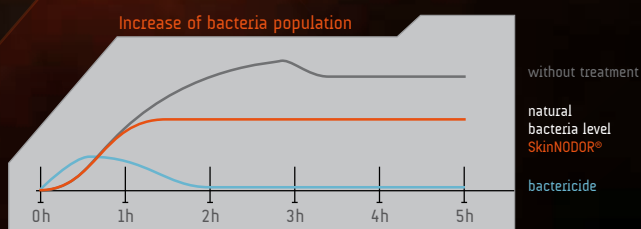
The X-Bionic® padded seat: ergonomically designed for a perfect fit. Excellent relief for blood vessels and nerves



ARTICLE CODE:
020037

COLOUR:
X13 Black/Anthracite

SIZES:
XS / S / M / L / XL



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THE GOOD NEWS: X-BIONIC® GIVES YOU MORE POWER.

Die gute Nachricht: X-BIONIC® verleiht Ihnen mehr Kraft.
Die schlechte: Ihren Gegnern auch.



THE BAD NEWS: YOUR COMPETITOR MIGHT HAVE FOUND OUT ALREADY.



«The best cycling-sock ever and worth every penny.»

Test verdict from «Cycling Plus» 2002

Die gute Nachricht: X-SOCKS® verleiht Ihnen mehr Kraft.
Die schlechte: Ihren Gegnern auch.



STREET BIKING WATER REPELLENT

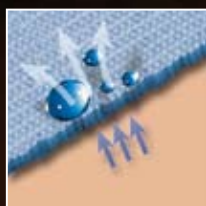
Test verdict: «... best developed socks.»(Biking)»

For Outdoor Types!

In stormy, rainy fall weather, the right clothing is especially important. Every athlete is familiar with the discomfort that ensues when your feet get soaked by rain and splashing puddles. The Street Biking offers a real solution to this problem with its special water repellent surface. The water droplets run right off the surface, and your feet stay warm and dry.

- 1 Self-adjusting Cuff**
adapts to any size leg without slipping or constricting.
- 2 Achilles' tendon Protector**
reduces the incidence of pressure points and the risk of scraping and bruising.
- 3 X-Cross® Bandage**
(*patentiert) Polstert und stabilisiert den sensiblen Knöchel ohne die Bewegungsfreiheit einzuschränken.
- 4 X-Cross® Bandage**
cushions and stabilises the sensitive ankle area without restricting freedom of movement.
- 5 Duckbill shaped Footguard**
this pad protects the upper part of the foot, evenly distributes pressure, and significantly reduces the chances of skin abrasions and chafing.
- 6 AirConditioning Channel®**
air channeling system made of a finely woven knit-mesh that continually circulates air and regulates the temperature around the foot. Located along the inside of the foot and extending up from the anatomically shaped foot-bed, it ensures that every movement of the foot pumps the moist, warm air out of even tight fitting shoes.
- 7 Heel Protector**
reduces friction and the risk of blistering.
- 8 ToeTip Protektor**
absorbs pressure and perfectly hugs the contour of the asymmetric toe area.
- 9 Traverse AirFlow Channel System**
regulates the temperature of the sole of the foot and conducts moist and overheated air into the AirConditioning Channel®.

- 10 Anatomically shaped Footbed**
Even on hard surfaces, the anatomically-Shaped Footbed protects and supports the foot. The areas of the foot subjected to particular stress and strain, such as the heel and the ball of the foot, are individually supported and cushioned where they need it most.



Wasserabweisend

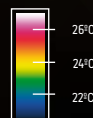


Images produced by a nitrogen-cooled thermal scanner clearly demonstrate the temperature-regulating properties of X-SOCKS®.

Bare foot - optimal heat and moisture regulation



Bare foot



X-SOCKS®

X-SOCKS® conduct heat away from the skin like a bare foot



Conventional wool sock

Wool sock - high retention of heat and moisture. The foot remains damp and overheated

Sizes

1 | 35-38 2 | 39-41
3 | 42-44 4 | 45-47

Technical Composition

42% Skin NODOR®
15 % Robur™
8 % Mythlan™
22% Nylon
13 % Elastodiene

Colours

X01 Black / X06 White

Article Code

X20003



"... best-developed socks."
(Biking)



"Schweiss-Schlucker - eine Socken-Revolution!"
(Biking)



"Finally end with pressure marks..."
(Biking)



"Super sock!"
(Biking)

Test verdict: «The most sophisticated cycling sock on the market.»

For Endurance Freaks!

The special padding on the instep provides Protection and equalizes pressure, significantly reducing the risk of sustaining skin irritations and abrasions. Climate-regulating compound yarns ensure that moisture is conducted away from the skin, and, besides, they are extremely soft and breathable. X-Socks® Street Biking, with the high-performance Advanced Foot Protection System, optimally protects and supports your feet in biking shoes.

- 1 Self-adjusting Cuff**
adapts to any size leg without slipping or constricting.
- 2 Achilles' tendon Protector**
reduces the incidence of pressure points and the risk of scraping and bruising.
- 3 X-Cross® Bandage**
(*patentiert) Polstert und stabilisiert den sensiblen Knöchel ohne die Bewegungsfreiheit einzuschränken.
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Sizes

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3 | 42-44 4 | 45-47

Technical Composition

42% Skin NODOR®
15 % Robur™
8 % Mythlan™
22% Nylon
13 % Elastodiene

Colours

X01 Black / X06 White

Article Code

X20001

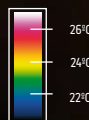


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Bare foot



X-SOCKS®

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Conventional wool sock

Wool sock - high retention of heat and moisture. The foot remains damp and overheated



"... best-developed socks." (Biking)



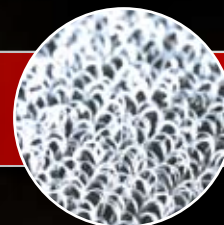
"Schweiss-Schlucker - eine Socken-Revolution!" (Biking)



"Finally end with pressure marks..." (Biking)



"Super sock!" (Biking)



Test verdict: «Our choice.» (Velo News) 2006

The Top of the Line!

These socks feature the unique Sinofit™ footbed made of 99.9%-pure silver, which effectively inhibits bacterial growth and thus offers Protection against unpleasant foot odor and athlete's foot. The sophisticated design of the padding zones on the sole, instep, heel, and ankle, in combination with the X-Cross® Bandage, protect and support the foot during normal movement and in the case a fall should occur. And yet the sock is light and ensures constant ventilation with fresh air thanks to the integrated AirConditioning Channels®. The convenient pull-on-non-slip flap prevents the foot's normal movements from causing the socks to slip down in the shoe.

1 Pull-On-Non Slip flap prevents the sock from slipping into the shoe. Aktiv-Bund® Passt sich jedem Beinumfang an, ohne zu rutschen oder einzuschnüren.

2 Self-adjusting Cuff adapts to any size leg without slipping or constricting.

3 Achilles' tendon Protector reduces the incidence of pressure points and the risk of scraping and bruising.

4 X-Cross® Bandage cushions and stabilises the sensitive ankle area without restricting freedom of movement.

5 AirFlow designed Ankle Pads cushion and secure the ankle, maintain a protective distance from the shoe, and ensure continuous air circulation.

6 Duckbill shaped Footguard this pad protects the upper part of the foot, evenly distributes pressure, and significantly reduces the chances of skin abrasions and chafing.

7 AirConditioning Channel® air channeling system made of a finely woven knit-mesh that continually circulates air and regulates the temperature around the foot. Located along the inside of the foot and extending up from the anatomically shaped foot-bed, it ensures that every movement of the foot pumps the moist, warm air out of even tight fitting shoes.

8 Heel Protector reduces friction and the risk of blistering.

9 ToeTip Protektor absorbs pressure and perfectly hugs the contour of the asymmetric toe area.

10 Traverse AirFlow Channel System regulates the temperature of the sole of the foot and conducts moist and overheated air into the AirConditioning Channel®.

11 Anatomically shaped Footbed Even on hard surfaces, the anatomically-Shaped Footbed protects and supports the foot. The areas of the feet subjected to particular stress and strain, such as the heel and the ball of the foot, are individually supported and cushioned where they need it most.



Sizes

1 | 35-38 2 | 39-41
3 | 42-44 4 | 45-47

Technical Composition

28% Skin NODOR®
22 % Robur™
12 % Mythlan™
14 % SilverNODOR™
21 % Nylon
3 % Elastodiene

Colours

X25 White/Grey Melange

Article Code

X20005

06/04

TOP TIP

mountainbike
MAGAZINE
rider

"X-Socks
look cool!"
(Biking Silver)

2/2006

TOP TIP

VELONEWS

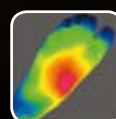
"Our choice."
(Biking Silver)

Hundreds of tiny loops inside the footbed work like microscopic files. They gently wear away the dead skin cells without affecting the active skin, so that the skin of the foot becomes soft and smooth and bacteria are deprived of their breeding ground. The removed dead skin cells fall between the yarn loops and are absorbed away from the outer layer.

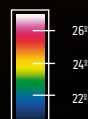


Images produced by a nitrogen-cooled thermal scanner clearly demonstrate the temperature-regulating properties of X-SOCKS®.

Bare foot -
optimal
heat and
moisture
regulation

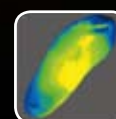


Bare foot



X-SOCKS®

X-SOCKS®
conduct
heat away
from the
skin like a
bare foot



Conventional
wool sock

Wool sock - high
retention of heat
and moisture.
The foot remains
damp and
overheated

BIKING ULTRA LIGHT

Test verdict: «X-SOCKS® - absolute mach winners!» (Fit for Fun) 2003



«X-SOCKS®
absolute mach winners!»
(Fit for Fun) 2003

When Light is Right!

You're planning a cycling tour in hot summer weather? Then X-Socks® Biking Ultralight are just the thing for you – they are especially lightweight and are cut lower than our other biking socks. Climate-regulating compound yarns rapidly transport moisture away from the skin to the surface of the sock. The "Air" ventilation system keeps your feet cool and dry. Additional features help you get the most out of your feet. The duckbill-shaped foot guard protects your instep from pressure points and skin irritation. Tendons, muscles, and joints are protected and stabilized by the low-cut X-Cross®-Bandage.

Sizes

1 | 35-38 2 | 39-41
3 | 42-44 4 | 45-47

Technical Komposition

36% Skin NODOR®
22 % Robur™
14% Mythlan™
25% Nylon
3% Elastodiene

Colours

X50 White/Black
X40 Anthracite/Grey Mouliné

Article Code

X20004

1 Self-adjusting Cuff

adapts to any size leg without slipping or constricting.

2 Achilles' tendon Protector

reduces the incidence of pressure points and the risk of scraping and bruising.

3 X-Cross® Bandage

cushions and stabilises the sensitive ankle area without restricting freedom of movement.

4 AirFlow designed Ankle Pads

cushion and secure the ankle, maintain a protective distance from the shoe, and ensure continuous air circulation.

5 Duckbill shaped Footguard

this pad protects the upper part of the foot, evenly distributes pressure, and significantly reduces the chances of skin abrasions and chafing.

6 AirConditioning Channel®

air channeling system made of a finely woven knit-mesh that continually circulates air and regulates the temperature around the foot. Located along the inside of the foot and extending up from the anatomically shaped foot-bed, it ensures that every movement of the foot pumps the moist, warm air out of even tight fitting shoes.

7 Heel Protector

reduces friction and the risk of blistering.

8 ToeTip Protektor

absorbs pressure and perfectly hugs the contour of the asymmetric toe area.

9 Traverse AirFlow Channel System

regulates the temperature of the sole of the foot and conducts moist and overheated air into the AirConditioning Channel®.

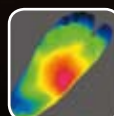
10 Anatomically shaped Footbed

Even on hard surfaces, the anatomically-Shaped Footbed protects and supports the foot. The areas of the feet subjected to particular stress and strain, such as the heel and the ball of the foot, are individually supported and cushioned where they need it most.



Images produced by a nitrogen-cooled thermal scanner clearly demonstrate the temperature-regulating properties of X-SOCKS®.

Bare foot -
optimal
heat and
moisture
regulation



Bare foot



X-SOCKS®

X-SOCKS®
conduct
heat away
from the
skin like a
bare foot



Conventional
wool sock

Wool sock - high
retention of heat
and moisture.
The foot remains
damp and
overheated

«A versatile and well-equipped sock!» (MountainBike) 2001

For Optimal Transmission of Power!

The X-Socks® Bike Racing model is especially lightweight and is cut lower than our other biking models. The lightweight finish provides optimal contact from the foot via the shoe to the pedal, ensuring excellent control and optimal transmission of power. A complex system of padding reduces pressure in exactly those areas where shocks and friction are greatest, effectively diminishing the risk of sustaining pressure points and skin abrasions. The climate-controlling materials and the "Air" ventilation system create a dry, climatized, and temperature-controlled environment for your feet, even under extreme conditions.

- 1 Self-adjusting Cuff**
adapts to any size leg without slipping or constricting.
- 2 Achilles' tendon Protector**
reduces the incidence of pressure points and the risk of scraping and bruising.
- 3 X-Cross® Bandage**
cushions and stabilises the sensitive ankle area without restricting freedom of movement.
- 4 AirFlow designed Ankle Pads**
cushion and secure the ankle, maintain a protective distance from the shoe, and ensure continuous air circulation.
- 5 Duckbill shaped Footguard**
this pad protects the upper part of the foot, evenly distributes pressure, and significantly reduces the chances of skin abrasions and chafing.
- 6 AirConditioning Channel®**
air channeling system made of a finely woven knit-mesh that continually circulates air and regulates the temperature around the foot. Located along the inside of the foot and extending up from the anatomically shaped foot-bed, it ensures that every movement of the foot pumps the moist, warm air out of even tight fitting shoes.
- 7 Heel Protector**
reduces friction and the risk of blistering.
- 8 ToeTip Protektor**
absorbs pressure and perfectly hugs the contour of the asymmetric toe area.
- 9 Traverse AirFlow Channel System**
regulates the temperature of the sole of the foot and conducts moist and overheated air into the AirConditioning Channel®.

- 10 Anatomically shaped Footbed**
Even on hard surfaces, the anatomically-Shaped Footbed protects and supports the foot. The areas of the feet subjected to particular stress and strain, such as the heel and the ball of the foot, are individually supported and cushioned where they need it most.

Sizes

1 | 35-38 2 | 39-41
3 | 42-44 4 | 45-47

Technical Composition

40% Skin NODOR®
21% Nylon
14 % Robur™
23% Mythlan™
2 % Elastodien

Colours

X01 Black / X06 White

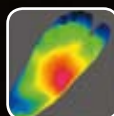
Article Code

X20002



Images produced by a nitrogen-cooled thermal scanner clearly demonstrate the temperature-regulating properties of X-SOCKS®.

Bare foot - optimal heat and moisture regulation



Bare foot



26°C

24°C

22°C



X-SOCKS®

X-SOCKS® conduct heat away from the skin like a bare foot



Conventional wool sock

Wool sock - high retention of heat and moisture. The foot remains damp and overheated



"Cleverly knitted. & Noticable comfort advantage." (Biking XS Racing)



"Very good regulation of warmth and humidity" (Biking XS Racing)



"A versatile and well-equipped sock!" (Biking Racing)

For Newcomers!

The Biking Discovery socks offer a low-cost alternative for those just beginning to discover the X-Socks® range. Featuring the X-Cross® Bandage, a special forefoot protector, and the AirConditioning Channel®, this sock offers sensational value for the money.

Sizes

1 | 35-38 2 | 39-41
3 | 42-44 4 | 45-47

Technical Composition

54 % AirGoTex™
22% Nylon
15 % Mythlan™
8% Robur™
1% Elastodiene

Colours

X01 Black / X06 White

Article Code

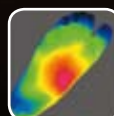
X20009

- 1 Self-adjusting Cuff**
adapts to any size leg without slipping or constricting.
- 2 Achilles' tendon Protector**
reduces the incidence of pressure points and the risk of scraping and bruising.
- 3 X-Cross® Bandage**
cushions and stabilises the sensitive ankle area without restricting freedom of movement.
- 4 AirConditioning Channel®**
air channeling system made of a finely woven knit-mesh that continually circulates air and regulates the temperature around the foot. Located along the inside of the foot and extending up from the anatomically shaped foot-bed, it ensures that every movement of the foot pumps the moist, warm air out of even tight fitting shoes.
- 5 Toe Protektor**
reduces friction and padding all around.
- 6 Traverse AirFlow Channel System**
regulates the temperature of the sole of the foot and conducts moist and overheated air into the AirConditioning Channel®.
- 7 Anatomically shaped Footbed**
Even on hard surfaces, the anatomically-Shaped Footbed protects and supports the foot. The areas of the feet subjected to particular stress and strain, such as the heel and the ball of the foot, are individually supported and cushioned where they need it most.

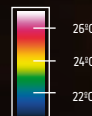


Images produced by a nitrogen-cooled thermal scanner clearly demonstrate the temperature-regulating properties of X-SOCKS®.

Bare foot - optimal heat and moisture regulation



Bare foot



X-SOCKS®

X-SOCKS® conduct heat away from the skin like a bare foot



Conventional wool sock

Wool sock - high retention of heat and moisture. The foot remains damp and overheated

MOUNTAINBIKING SHORT

Test verdict: «There's no more progressive socks than these!»

Bushes, thorns, undergrowth... Mountain biking is most fun when the terrain is roughest. But effective Protection doesn't have to mean compromising freedom of movement. X-Socks® for Mountain Biking are pleasant to wear and control the microclimate in your shoe. In addition, they offer Protection from injuries caused by branches, bushes, and undergrowth. The shin protectors with Robur™ padding are especially effective in this regard. If a fall does prove unavoidable, the Robur™-reinforced padding reduces the danger of abrasions in the ankle area.

- 1 Self-adjusting Cuff**
adapts to any size leg without slipping or constricting.
- 2 Allround Protektor**
- 3 Achilles' tendon Protector**
reduces the incidence of pressure points and the risk of scraping and bruising.
- 4 X-Cross® Bandage**
cushions and stabilises the sensitive ankle area without restricting freedom of movement.
- 5 AirFlow designed Ankle Pads**
cushion and secure the ankle, maintain a protective distance from the shoe, and ensure continuous air circulation.
- 6 Duckbill shaped Footguard**
this pad protects the upper part of the foot, evenly distributes pressure, and significantly reduces the chances of skin abrasions and chafing.
- 7 AirConditioning Channel®**
air channelling system made of a finely woven knit-mesh that continually circulates air and regulates the temperature around the foot. Located along the inside of the foot and extending up from the anatomically shaped foot-bed, it ensures that every movement of the foot pumps the moist, warm air out of even tight fitting shoes.
- 8 Heel Protector**
reduces friction and the risk of blistering.
- 9 ToeTip Protektor**
absorbs pressure and perfectly hugs the contour of the asymmetric toe area.

- 10 Traverse AirFlow Channel System**
regulates the temperature of the sole of the foot and conducts moist and overheated air into the AirConditioning Channel®.
- 11 Anatomically shaped Footbed**
Even on hard surfaces, the anatomically-Shaped Footbed protects and supports the foot. The areas of the feet subjected to particular stress or strain, such as the heel and the ball of the foot, are individually supported and cushioned where they need it most.

Sizes

1 | 35-38 2 | 39-41
3 | 42-44 4 | 45-47

Technical Composition

40% Skin NODOR®
21% Nylon
23% Robur™
13% Mythlan™
3 % Elastodiene

Colours

X01 Black / X06 White

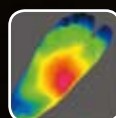
Article Code

X20007



Images produced by a nitrogen-cooled thermal scanner clearly demonstrate the temperature-regulating properties of X-SOCKS®.

Bare foot - optimal heat and moisture regulation



Bare foot



26°C

24°C

22°C



X-SOCKS®

X-SOCKS® conduct heat away from the skin like a bare foot



Conventional wool sock

Wool sock - high retention of heat and moisture. The foot remains damp and overheated



"X-Socks are the most progressive socks..."
(Mountain Biking)



"Gear of the Year 2005"
(Mountain Biking Short)



"Unique!"
(Mountain Biking)



"... the best MTB socks."
(MTB Water Repellent)



"There's no more progressive socks than these!"
(Mountain biking Short)



"... more comfort than the norm"
(Mountain Biking)



"X-Socks absoluter Matchwinner!"
(MTB Short)



"... you have to try them!"
(Mountain Biking)



"Unbelievably good purchase!"
(Mountain Biking)

MOUNTAINBIKING SHORT WATER REPELLENT

«... the best MTB socks.» (Bikers) 2002

For any Weather!

When mountain biking, deep puddles and muddy potholes can always appear out of nowhere – a challenge that adds to the thrill for the experienced mountain biker. Unfortunately, it's a thrill that must be paid for with cold, wet feet. That is now a thing of the past, thanks to the specially-treated X-Socks® Mountain Biking. The water forms droplets that simply run off the water-repellent surface. Despite this advantage, the material is breathable and, along with the fantastic AirConditioning Channel®, provides a comfortable environment for your feet.

- 1 Self-adjusting Cuff**
adapts to any size leg without slipping or constricting.
- 2 Allround Protektor**
- 3 Achilles' tendon Protector**
reduces the incidence of pressure points and the risk of scraping and bruising.
- 4 X-Cross® Bandage**
cushions and stabilises the sensitive ankle area without restricting freedom of movement.
- 5 AirFlow designed Ankle Pads**
cushion and secure the ankle, maintain a protective distance from the shoe, and ensure continuous air circulation.
- 6 Duckbill shaped Footguard**
this pad protects the upper part of the foot, evenly distributes pressure, and significantly reduces the chances of skin abrasions and chafing.
- 7 AirConditioning Channel®**
air channeling system made of a finely woven knit-mesh that continually circulates air and regulates the temperature around the foot. Located along the inside of the foot and extending up from the anatomically shaped foot-bed, it ensures that every movement of the foot pumps the moist, warm air out of even tight fitting shoes.
- 8 Heel Protector**
reduces friction and the risk of blistering.
- 9 ToeTip Protektor**
absorbs pressure and perfectly hugs the contour of the asymmetric toe area.

- 10 Traverse AirFlow Channel System**
regulates the temperature of the sole of the foot and conducts moist and overheated air into the AirConditioning Channel®.
- 11 Anatomically shaped Footbed**
Even on hard surfaces, the anatomically-Shaped Footbed protects and supports the foot. The areas of the feet subjected to particular stress or strain, such as the heel and the ball of the foot, are individually supported and cushioned where they need it most.

Sizes

1 | 35-38 2 | 39-41
3 | 42-44 4 | 45-47

Technical Composition

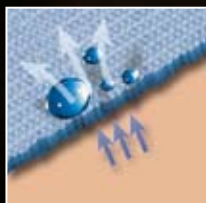
40% Skin NODOR®
21% Nylon
23% Robur™
13% Mythlan™
3 % Elastodiene

Colours

X01 Black / X06 White

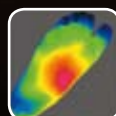
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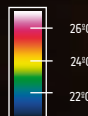


Images produced by a nitrogen-cooled thermal scanner clearly demonstrate the temperature-regulating properties of X-SOCKS®.

Bare foot - optimal heat and moisture regulation



Bare foot



X-SOCKS®

X-SOCKS® conduct heat away from the skin like a bare foot



Conventional wool sock

Wool sock - high retention of heat and moisture. The foot remains damp and overheated



"X-Socks are the most progressive socks..."
(Mountain Biking)



"Gear of the Year 2005"
(Mountain Biking Short)



"Unique!"
(Mountain Biking)



"... the best MTB socks."
(MTB Water Repellent)



"There's no more progressive socks than these!"
(Mountain biking Short)



"... more comfort than the norm"
(Mountain Biking)



"X-Socks absoluter Matchwinner!"
(MTB Short)



"... you have to try them!"
(Mountain Biking)



"Unbelievably good purchase!"
(Mountain Biking)

«Socks from an other planet» (Sykkel) 2004



«Socks from an other planet» (Sykkel) 2004

For Newcomers!

The Mountainbiking Discovery socks offer a low-cost alternative for those just beginning to discover the X-Socks® range. Featuring the X-Cross® Bandage, a special forefoot protector, and the AirConditioning Channel®, this sock offers sensational value for the money.

Sizes

1 | 35-38 2 | 39-41
3 | 42-44 4 | 45-47

Technical Composition

39% Skin NODOR®
21% Nylon
16% Robur™
20% Myrthlan™
4% Elastodiene

Colours

X01 Black / X06 White

Article Code

X20201

1 Self-adjusting Cuff

adapts to any size leg without slipping or constricting.

2 Half-moon shaped Shin Protektor

3 Achilles' tendon Protektor

reduces the incidence of pressure points and the risk of scraping and bruising.

4 X-Cross® Bandage

cushions and stabilises the sensitive ankle area without restricting freedom of movement.

5 AirConditioning Channel®

air channeling system made of a finely woven knit-mesh that continually circulates air and regulates the temperature around the foot. Located along the inside of the foot and extending up from the anatomically shaped foot-bed, it ensures that every movement of the foot pumps the moist, warm air out of even tight fitting shoes.

6 Rist Protektor

cushions and acts as a shock absorber, significantly reducing the incidence of painful pressure points and scraping, bruising and blistering.

7 Heel Protektor

reduces friction and the risk of blistering.

8 ToeTip Protektor

absorbs pressure and perfectly hugs the contour of the asymmetric toe area.

9 Traverse AirFlow Channel System

regulates the temperature of the sole of the foot and conducts moist and overheated air into the AirConditioning Channel®.

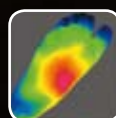
10 Anatomically shaped Footbed

Even on hard surfaces, the anatomically-Shaped Footbed protects and supports the foot. The areas of the feet subjected to particular stress and strain, such as the heel and the ball of the foot, are individually supported and cushioned where they need it most.

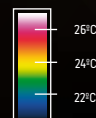


Images produced by a nitrogen-cooled thermal scanner clearly demonstrate the temperature-regulating properties of X-SOCKS®.

Bare foot - optimal heat and moisture regulation



Bare foot



X-SOCKS®

X-SOCKS® conduct heat away from the skin like a bare foot



Conventional wool sock

Wool sock - high retention of heat and moisture. The foot remains damp and overheated

