

# Trevira Bioactive\*

For a plus in cleanliness and freshness



Workwear  
Hospital textiles

Functional apparel

Flame retardant  
Home textiles

Fill material

\*This product contains an antimicrobial additive to prevent the growth of bacteria on the fibre.

# Trevira Bioactive

**Textiles from hi-tech fibres to meet the high demands of cleanliness and freshness.**

## PROPERTIES THAT AFFECT US DIRECTLY

A further functional property is joining those already familiar in Trevira fabrics - low-pill, elastic, hard-wearing, breathable and heat regulating – this is the bioactive effect. It results from the use of antimicrobial Trevira fibres. Trevira Bioactive textiles, in which these fibres are processed, possess inherent protection against microorganisms.

## ADVANTAGES THAT SCORE HIGHLY

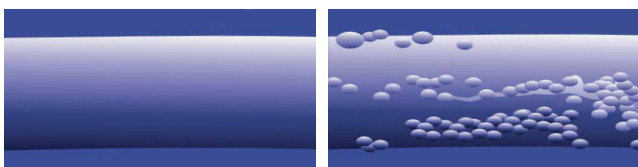
Joining textiles for apparel, home textiles for use in public institutions and private residences can now add this bonus as well and the Trevira CS and Trevira Home brands are already gathering momentum from this. Just as apparel, it is now possible with home textiles to combine textile functions by employing different Trevira fibres, which give the fabrics specific additional benefits. Thus Trevira CS is throughout the world the premier brand now for textiles that permanently combine flame retardancy and the bioactive effect together.



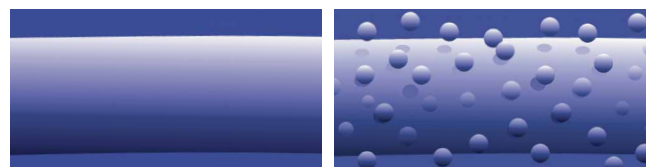
*The labels for antimicrobial fabrics with permanent bioactive properties that prevent bacteria from multiplying in or on the fibres. In this way Trevira Bioactive materials contribute decisively towards improving cleanliness and freshness.*

## EFFECTS THAT LAST FOR EVER

Unlike products that are given supplementary treatments or finished with substances that migrate a great deal, a special agent is firmly incorporated into bioactive Trevira fibres and stays there unchanged. This additive exercises a permanent antimicrobial effect.



*While normal fibres (right) allow growth of bacteria on the surface, Trevira Bioactive (left) stays clean and fresh longer.*



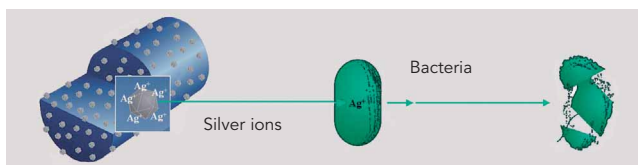
*Additives with antimicrobial effect are firmly embedded in the Trevira fibre (left), while in the case of fibres given supplementary treatment (right), the chemical substances migrate into the environment and can damage human cells or the natural skin flora.*

## TESTS THAT PROVIDE CERTAINTY

Comprehensive series of tests carried out by independent external institutes have shown the antimicrobial effect of bioactive Trevira fibres. They have demonstrated that the bioactive component prevent the exponential growth of bacteria populations on the fibre surface. In an extensive long-term study the Hohenstein Institute has shown that Trevira Bioactive textiles are kind to the skin. The antimicrobial effect is restricted to the fibre surface. This is substantiated by tests carried out for skin compatibility and cytotoxicity, where there was no evidence of cell damage to the skin. The skin flora and other physiological skin parameters revealed no significant changes when in contact with Trevira Bioactive. In its textile properties Trevira Bioactive naturally enjoys all the benefits of tried and tested Trevira fibres.

## TYPES THAT GUARANTEE VARIETY

It is possible to produce all Trevira types in an antimicrobial version. Due to the fields of application, the low-pill, cotton and fill fibre types in particular have established themselves in the market, along with various filament yarns (flat, textured, spun or yarn-dyed). In the home textiles sector it is mainly the flame retardant Trevira products that cover a large range of applications.



Silver ions exercise their effect in the immediate vicinity. Trevira Bioactive is kind to the skin, but inhibit the growth of bacteria.

## BRANDS THAT STAND FOR QUALITY

Like all Trevira brands, Trevira Bioactive stands for quality and functionality. To guarantee the properties, the appropriate testing is carried out following the Trevira trademark guidelines. Once the tests are passed successfully the trademark approval is issued.



The Oeko-Tex-Standard 100 guarantees conformity with human-ecological requirements, including those for baby articles.

## FABRICS THAT GO THROUGH FIRE

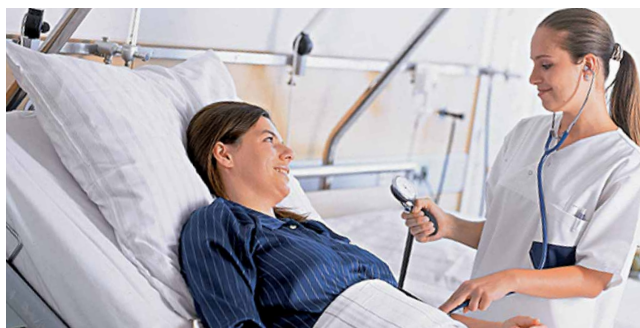
Flame retardant Trevira CS Bioactive materials reduce the danger of fire by preventing the spread of flames. For this reason all important international fire safety tests have placed them in the "flame retardant" category.



In the important international burn tests Trevira CS Bioactive counts as flame retardant. Above, the stringent test to DIN 4102, Class B1, and the French "Brûleur électrique", one of the hardest tests worldwide.

# Apparel Bioactive

For that good clean and fresh feeling.



## CLEANLINESS THAT LOOKS GOOD

The use of Trevira Bioactive is ideal for workwear, if it is used in surroundings where there is a requirement not only for comfort and practicability. This is, for example, the case in daily routine at the clinic. It is possible, of course, to gain this textile benefit not only in clothing, but also in bed linen and sheets as part of the textile elements in the hospital or care home. Workwear in the food processing industry and service personnel can also gain additional benefit due to the reduction in bacteria and odours.



## FUNCTIONAL WEAR THAT IS COMPATIBLE WITH THE SKIN

Wherever clothing comes into contact with the skin, - during sport, at night or simply in the daytime in underwear - bacteria find ideal conditions for growth, especially where the body produces warmth and moisture. They spread out on the fabric. Bioactive fibres from Trevira inhibit this growth in and on textiles, at the same time reducing the build-up of unpleasant odours. Trevira Bioactive is compatible with the skin and gives the user a feeling of cleanliness and freshness. Underwear, shirts, socks and other garments stay fresh longer and enhance the feel-good effect. Easy care functional clothing is, therefore, not only breathable, quick drying, and able to transport moisture, it also delivers the added benefit of its bioactive effect.

\* This product does not protect users or others against disease-causing or food-borne bacteria

# Home textiles Bioactive

## Textiles with a double effect.



### TEXTILES THAT OFFER DOUBLE EFFECT

Along with antimicrobial properties, it is above all security against fire that constitutes an essential function of Trevira fibres. For the first time we now have a material that combines solutions for both of these requirements: Trevira CS Bioactive. The property of permanent flame retardancy is – just like the bioactive effect – firmly embedded in the fibre. For this reason the flame retardant and bioactive functions cannot be affected significantly either by rubbing or ageing. Trevira CS Bioactive is used in hotels and hospitals, in offices and event rooms, and above all everywhere people are travelling: on aircraft, trains, on buses and at sea.



### HOMES ONE NEED NOT SHARE

Bioactive home and household textiles also help enhance the feeling of well being in private residences. Curtains, fabric covered furniture or bathroom textiles are much more enjoyable when one knows that they carry fewer bacteria.

In particular, those who are keen to make their home a safe place to be are doing the right thing with Trevira CS Bioactive, because these materials not only have an antimicrobial effect, they are also permanently flame retardant. And unlike fabrics given chemical treatment at a later stage, the antimicrobial and flame retardant properties are firmly incorporated into the fibre raw material. This is especially favourable to the environment, since it is possible to dispense with the finishing process otherwise involved. In addition, the fabrics are extremely easy to maintain, they are extraordinarily durable and even with intensive usage they retain their good looks over long periods.

# Convincing advantages

## Bioactive hi-tech fibres for selected applications.



*enhance feeling of well being, ...*



*... pleasant to the bare skin,*



*... flame retardant for home textiles,*



*...fresh and clean, where people are at home"*

### TREVIRA BIOACTIVE TEXTILES

- contain a permanently antimicrobial active substance
- are compatible with the skin
- meet the highest quality demands

### THE EFFECT

- has been certified by independent expert institutes
- cannot be washed out
- is not affected by frequent wear
- reduces the formation of odour caused by microbes
- is restricted to the fibre surface

### ENHANCED BY THE TREVIRA PLUS POINTS

- low-pill
- easy care
- hardwearing
- dimensionally stable
- pleasant soft handle
- breathable
- Oeko-Tex Standard 100 certified

### IN COMBINATION WITH TREVIRA CS

- permanently flame retardant
- wide product range
- ideal for hotels, hospitals, the transport sector and public establishments
- of interest to the private sector



## QUALITY WITH CERTAINTY

Trevira is an important European manufacturer of polyester fibres and at the same time the only one that offers the complete range from polymer to fibres and textured filament yarns. The special expertise and competence of Trevira research, product development and services guarantee quality without compromise to our customers and success in the market.

Trevira maintains a management system for protecting quality and the environment to DIN EN ISO 9001 and DIN EN ISO 14001, as well as an energy management system to DIN EN ISO 50001.

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