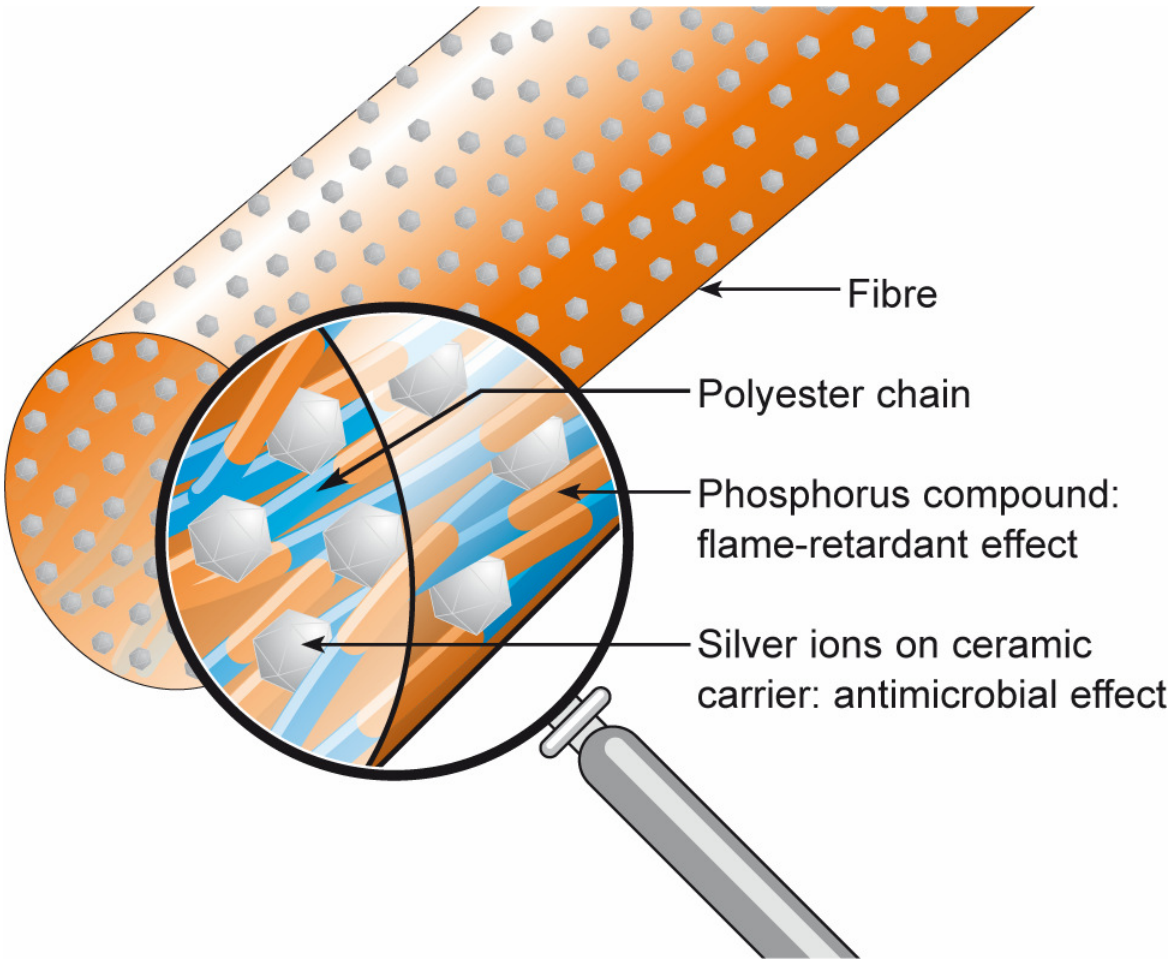
Trevira
THE FIBRE COMPANY

The Trevira CS Bioactive Concept

Trevira, a member of the international Reliance group, is the leading manufacturer for specialty polyester fibres. The Trevira CS brand enjoys the number one position worldwide for fire-retardant fabrics. Why? Because the consistent brand policy pursued by Trevira ensures maximum fire resistance. The successful Trevira CS brand has just become one innovation richer: Trevira CS Bioactive is the world's first flame-retardant fabric to boast an antimicrobial effect.
Only textiles consisting 100% of flame-retardant fibres from Trevira - at least 50% of which must be bioactive Trevira fibres - and which have been approved by Trevira GmbH following testing for burning behavior and antimicrobial effect can carry the Trevira CS Bioactive brand name.

Structure of the Trevira CS Bioactive staple fibre



The polymer from which Trevira extrudes its flame-retardant and antimicrobial fibres offers two critical inherent functions: phosphorus compounds firmly anchored in the polyester chain for the flame retardancy and silver and silver ions for the antimicrobial effect. In staple fibres, silver ions are set on ceramic carriers that are firmly anchored in the fibre.

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Fields of application

Trevira CS Bioactive is particularly useful for contract and service textiles in rooms and buildings subject to stringent fire safety regulations and particularly high standards of hygiene standards.

Trevira CS Bioactive for the textile furnishing of

- Buildings and facilities with high visitor densities
- Buildings exposed to heavy use by the general public
- Highly frequented public buildings and institutions

Examples include:

- Hospitals
- Care and retirement homes
- Schools and colleges
- Universities
- Libraries
- Local government buildings
- Homes and institutions
- Kindergartens
- Arenas and event halls
- Shopping malls
- Means of transport
  - Passenger ferries
  - Cruise ships
  - Aircraft
  - Trains
  - Buses
  - Canteens
  - Dining halls
  - Fast-food restaurants

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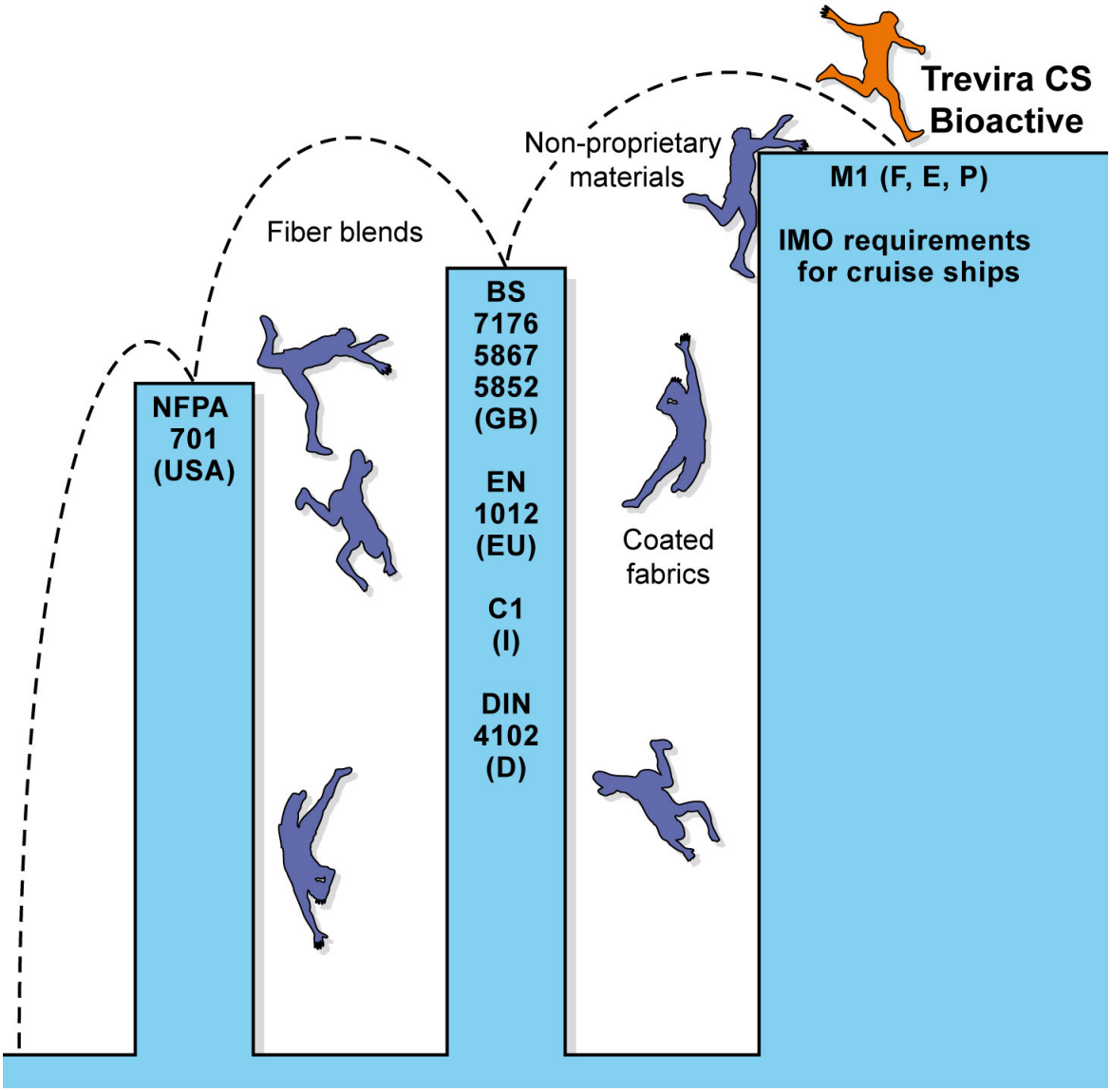
Trevira CS Bioactive fabrics give textiles all-round protection

Examples include:

- Curtains
- Seat covers
- Bed covers
- Bed linen
- Tablecloths
- Table linen
- Napkins
- Textile coverings, e.g. walls and wind screens
- Upholstery and fillings
- Hand towels
- Service textiles

with 100% **fire protection** and 100% antibacterial effect

Trevira CS Bioactive meets the key standards!

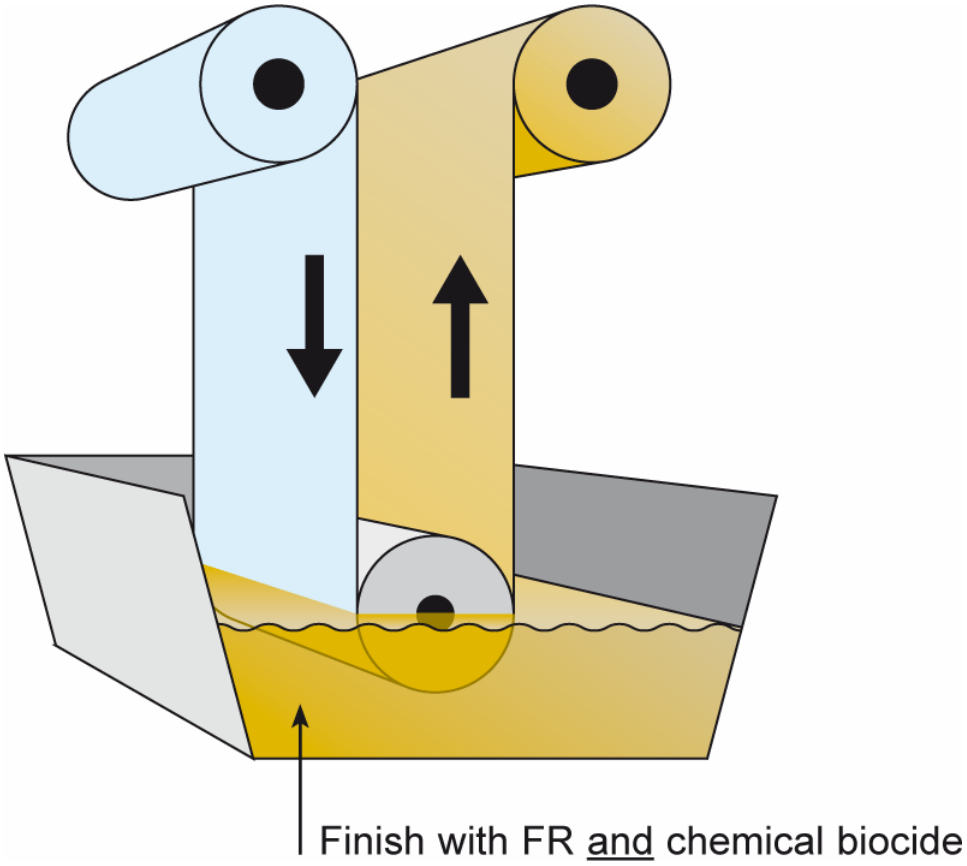


Fibre blends, coated fabrics and many non-proprietary materials hardly meet the standards. With Trevira CS Bioactive materials, though, you can be sure of having maximum performance in flame retardancy and antibacterial properties.

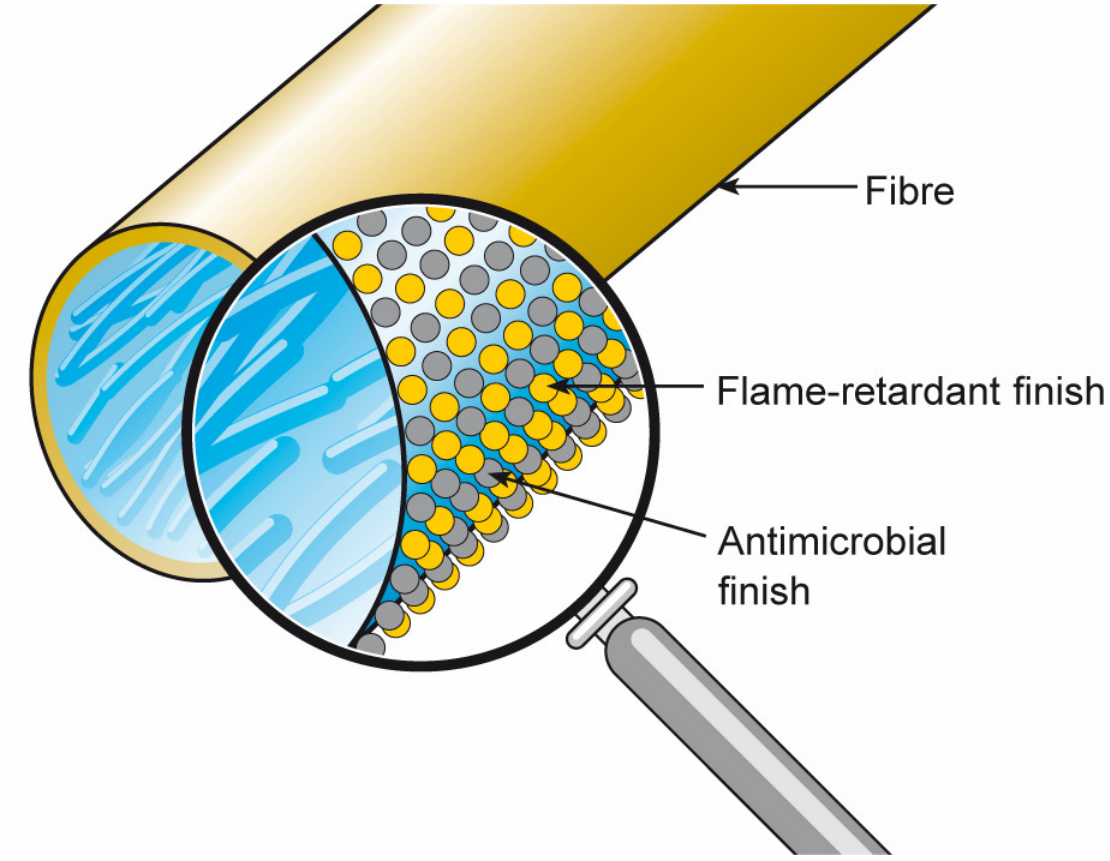
Converted textiles

Flame retardancy and bactericidal properties can also be achieved by coating with suitable chemicals. Compared with Trevira CS Bioactive, though, these converted fabrics will always be second choice.

How textiles are converted using chemicals



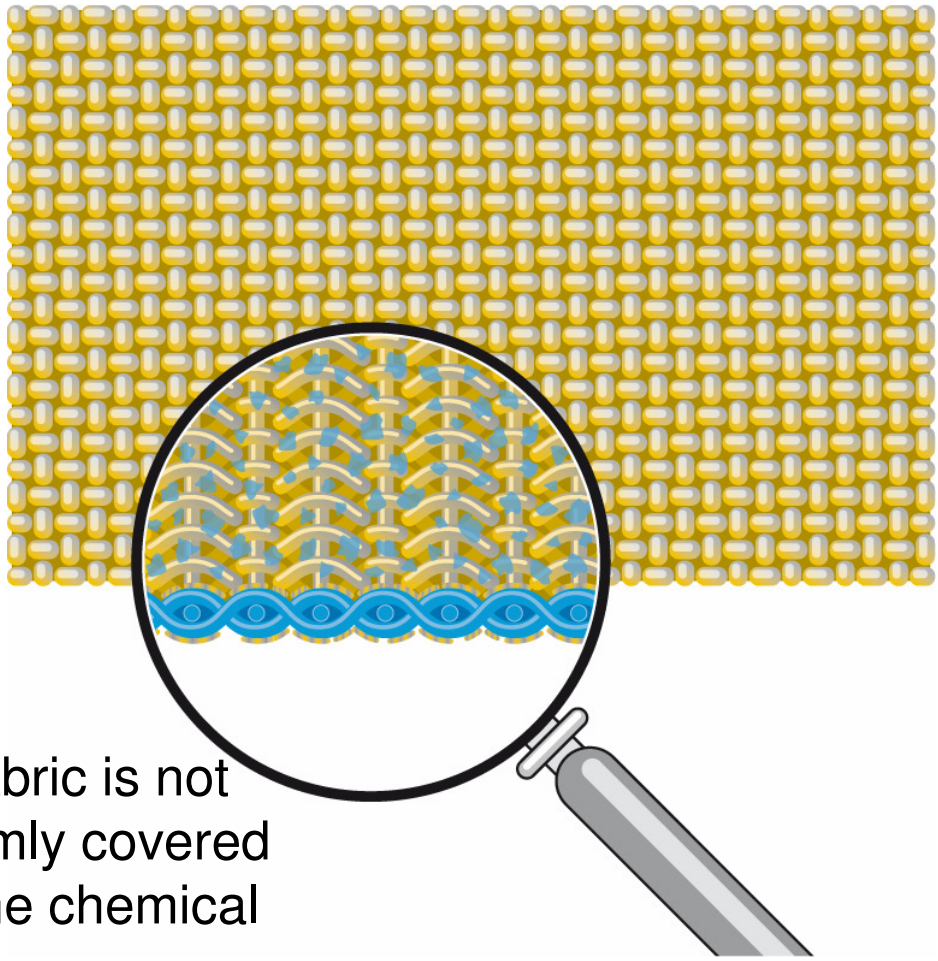
Converted textiles are no alternative



Converted textiles are not an option

Incomplete coating and mechanical stresses damage the layer, reducing flame resistance and the antibacterial effect.

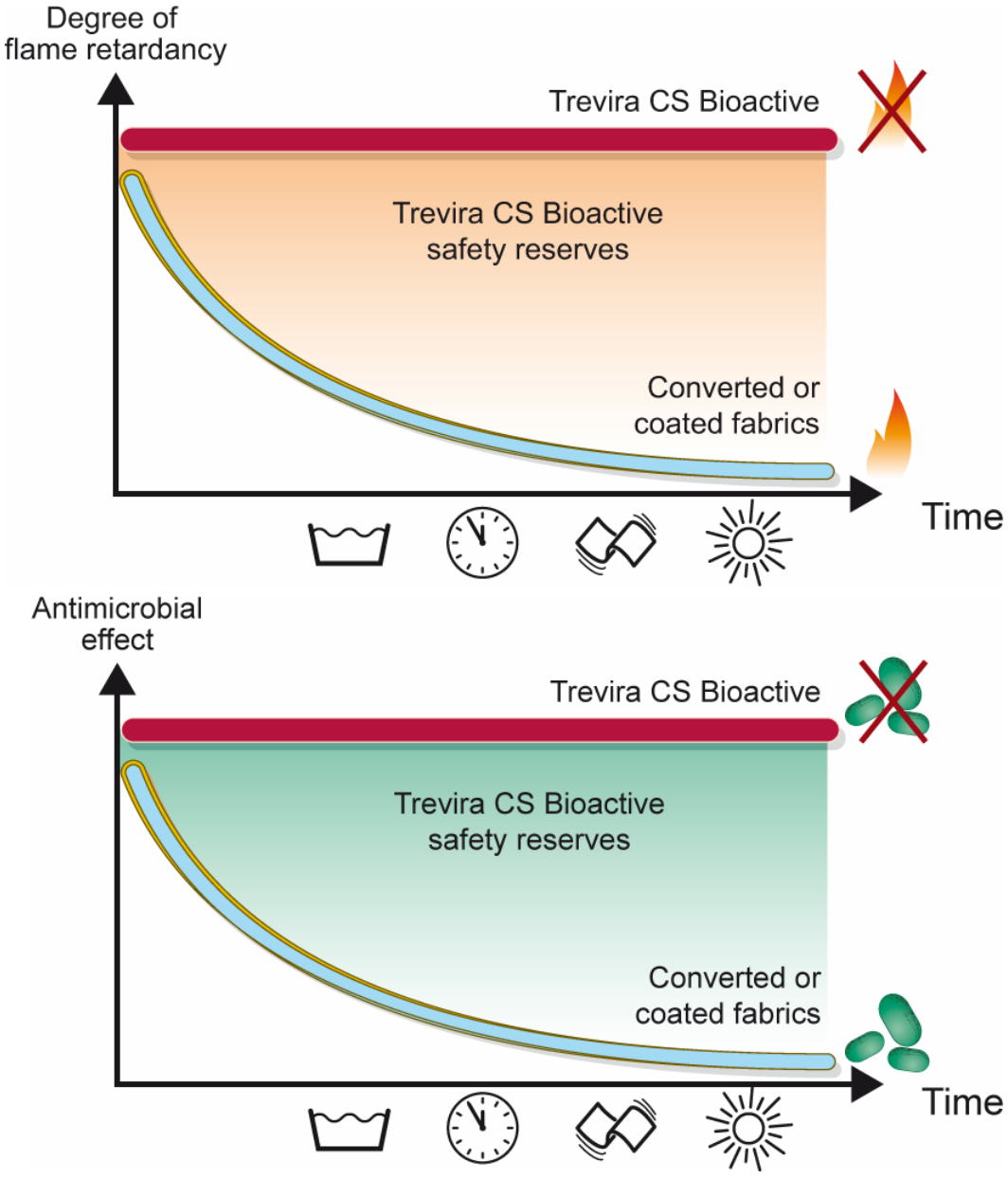
Textiles coated with chemicals



The fabric is not uniformly covered with the chemical

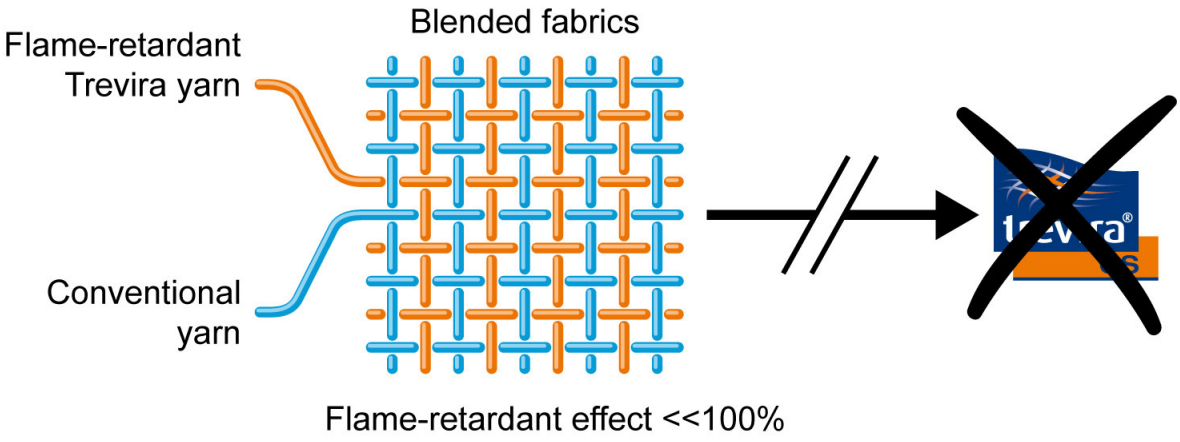
Permanent effect

Trevira CS Bioactive ensures lasting protection for textiles in flame resistance and defence against germs!

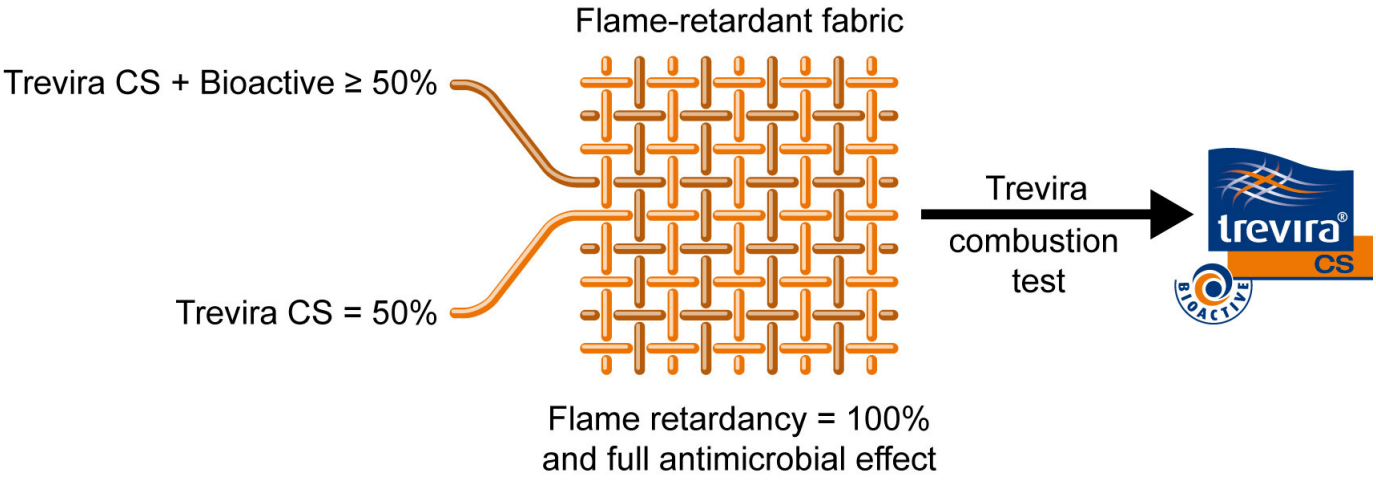


Trevira CS Bioactive and the brand policy

Flame retardancy has top priority. Blends with other fibres such as CO or WO or normal PES do not meet the safety standard of Trevira CS



Trevira CS Bioactive consists 100 % of flame-retardant Trevira fibres. Of these, at least 50 % must be bioactive.

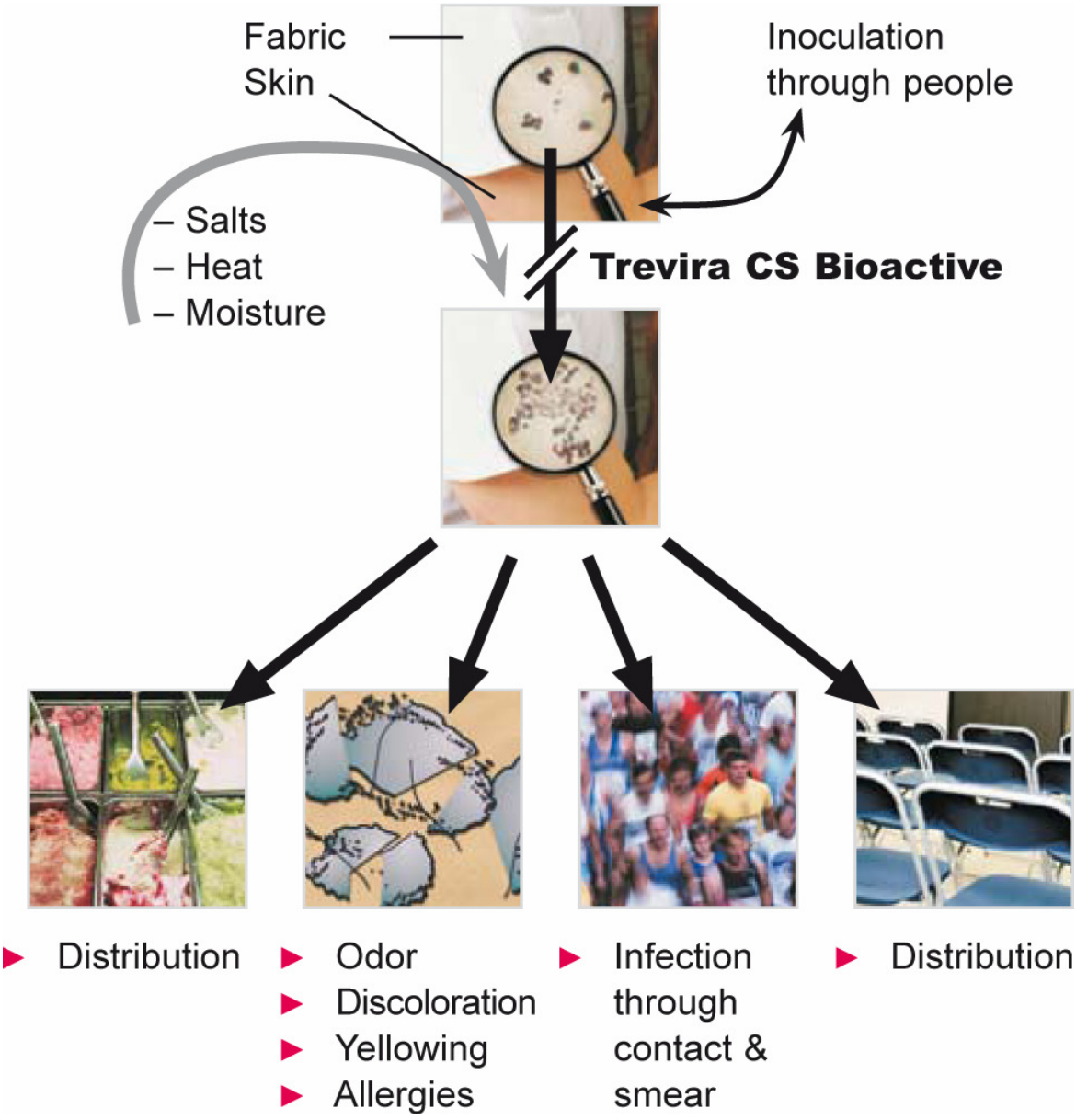


The benefits of Trevira CS Bioactive at a glance

- Integrated safety concept for flame retardancy and defense against germs
- Lasting safety guaranteed
- All certificates available
- Always (!) meets the highest standards of flame retardancy
- Wide choice of designs for appealing textiles
- Wide range of positive textile properties: hand, construction, sheen, luster, easy textile care
- Legal peace of mind for designers and converters as well as developers, owners and investors

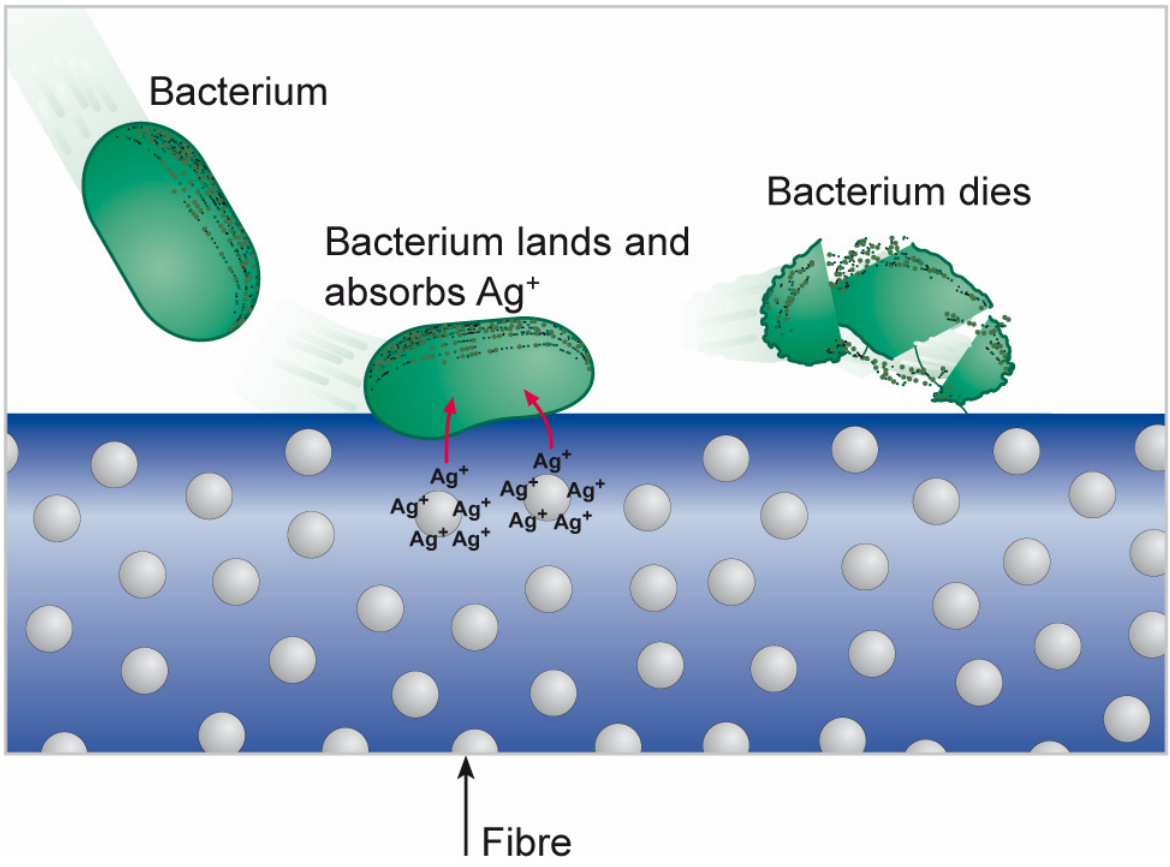
Appendix

Trevira CS Bioactive stops the growth of bacteria



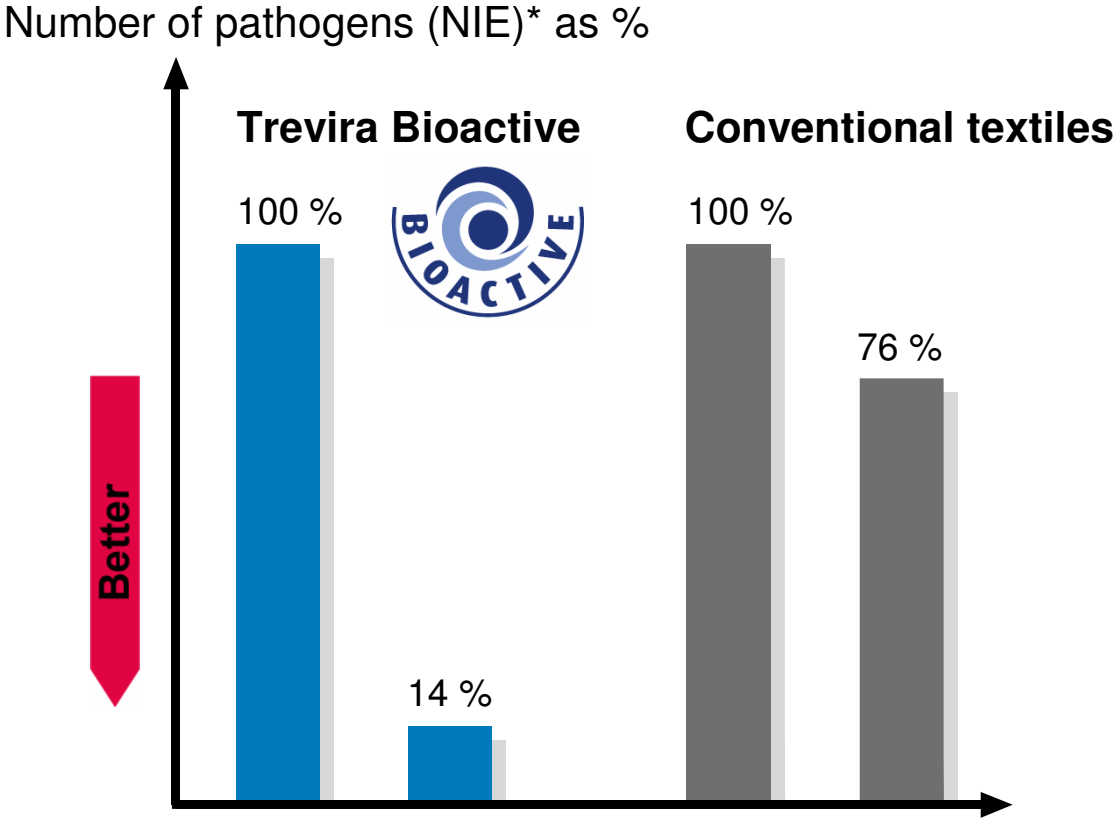
Appendix

Trevira CS Bioactive in action



Appendix

Test result with easy-care clothing



after 8 hrs. of wear and a waiting period of 16 hrs.

Germ count after 8 hours of wear and a waiting period of 16 hours (= 24 hours): Trevira Bioactive shows result of -86%

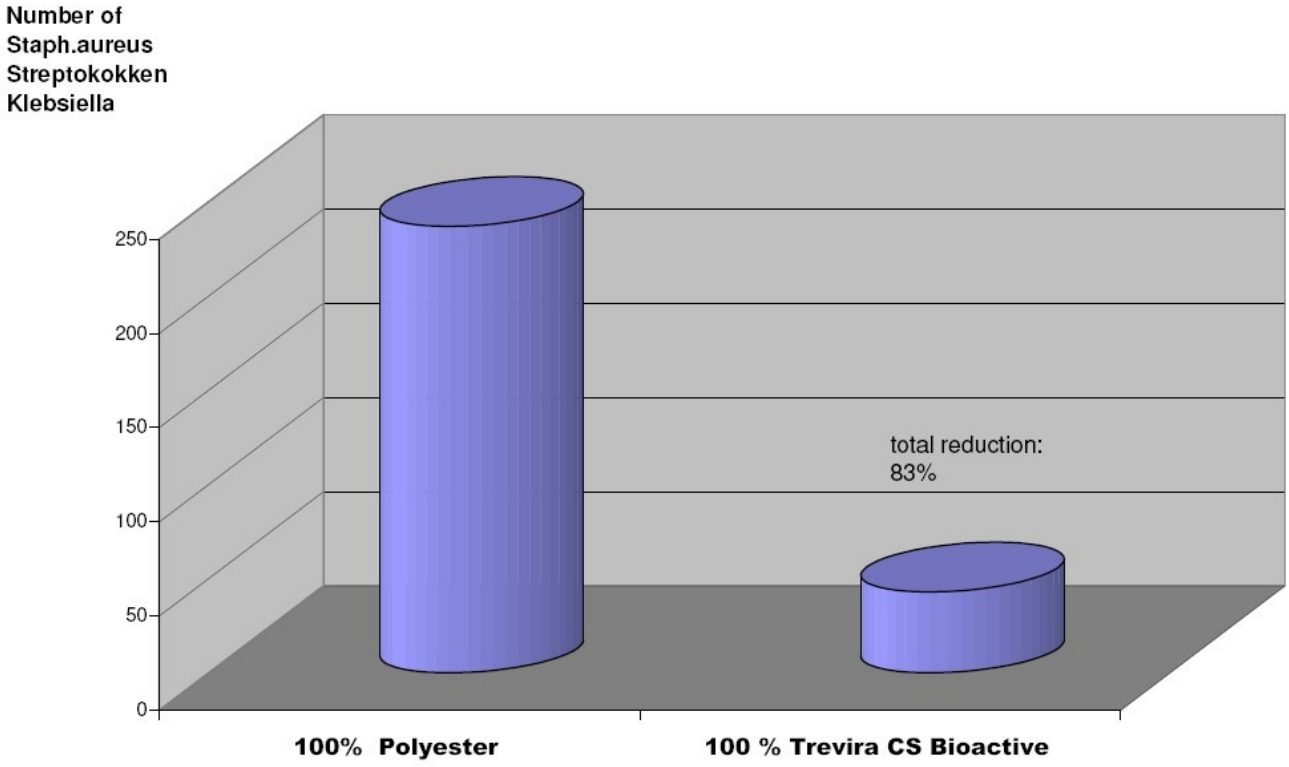
- Trevira Bioactive Workwear significantly reduces the number of pathogenic organisms.

* *NIE: nosocomial infection pathogens (pathogenic organisms acquired in hospital)*
Source: Humboldt Klinikum, Berlin

Appendix

Test result

Reduction of germs on Trevira CS Bioactive hospital curtains



An examination of 600 samples over a period of 6 weeks time revealed a reduction of germ count of 83 % on Trevira CS Bioactive fabrics.

- decorative Trevira CS fabrics are a vital element in the mulitbarrier system of avoidung nosocomial infections.

NIE: nosocomial infection pathogens (pathogenic organisms acquired in hospital)
Source: Humboldt Klinikum, Berlin