



BeSo[®]DRY

- ▶ Water and stain repellency
- ▶ Breathable
- ▶ Fluorocarbon-free and formaldehyde-free

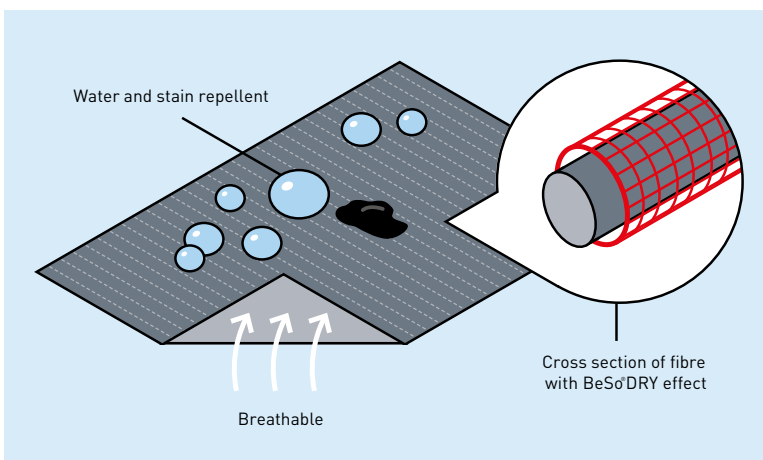
Smart effects with character

BeSo®DRY – keep smiling in the rain

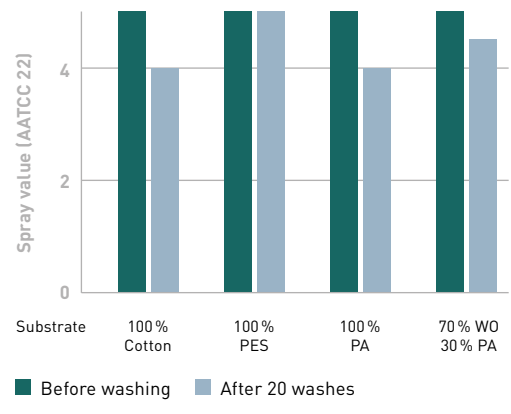
Where is that umbrella when you need one, right? No worries! With BeSo®DRY there is no reason to frown at those rain clouds that came out of nowhere or that downpour that took you by surprise. In fact, BeSo®DRY is a reason to smile when it gets wet. This water repellent textile finish is eco-friendly, highly effective, durable and thus the **best** solution to keep wearers comfortable and dry even in the worst weather.

BeSo®DRY – just one of our smart effects with character.

Eco-friendly water repellent effect



Wash durability



- ▶ Fluorocarbon-free
- ▶ Effective protection against water and water-based stains
- ▶ Optimally suited for outdoor clothing, athleisure, school and business wear
- ▶ Excellent performance on cotton, synthetics and blends
- ▶ Measured by
 - spray test (AATCC 22/ISO 4920)
 - soil release test (AATCC 130)
 - water repellency test (AATCC 193/ISO 23232)
 - Bundesmann rain test (ISO 9865)

BeSo®DRY



This finish is equipped with:

Selected auxiliaries from the product family ECOPERL.



Our products meet the highest standards. Find out more at: www.cht.com/beso-dry



BeSo[®]WELL

- ▶ Wellness to wear
- ▶ Soft and flowing touch
- ▶ Smooth and pleasant feeling on the skin

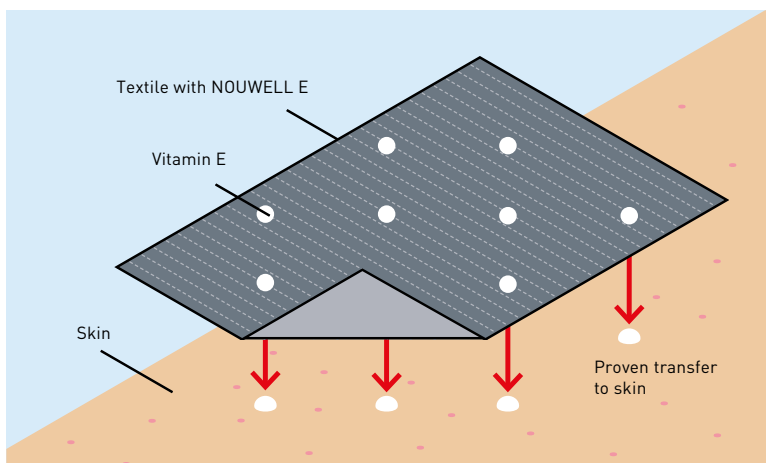
Smart effects with character

BeSo®WELL – your wellness effect to wear

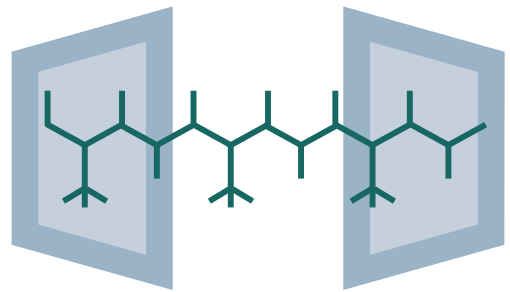
A spa day is wellness for body and soul. Now you can enjoy that rejuvenating feeling while you relax at home or during your day-to-day active life. BeSo®WELL uses innovative technology to incorporate natural substances onto textiles. BeSo®WELL is gentle skin care to wear that also offers outstanding textile softness. This skin care textile finish is the **best solution** to keep wearers feeling truly comfortable in their own skin.

BeSo®WELL – just one of our smart effects with character.

Transfer of vitamin E from the textile to the skin



Effective anti-ageing



Cyclodextrin-vitamin E-complex

- ▶ Optimally suited for next-to-skin garments like underwear, hosiery and leisurewear
- ▶ Offers comfort and care for home textiles like bed linen
- ▶ Aloe vera: wound healing, moisturising
- ▶ Vitamin E: anti-ageing, antioxidant
- ▶ Silk protein: silky shine, skin tightening
- ▶ Tested for
 - skin compatibility (DITF-method V01, 2002)
 - cytotoxicity (MTT-test DITF-method TOX 04, 2002)

BeSo®WELL



This finish is equipped with:

Selected auxiliaries from the product family NOUWELL.



Our products meet the highest standards.
Find out more at: www.cht.com/beso-well



BeSo[®]SMOOTH

- ▶ Anti-pilling effect
- ▶ Fabrics maintain new look over longer periods of usage
- ▶ Expanded life cycle of garments

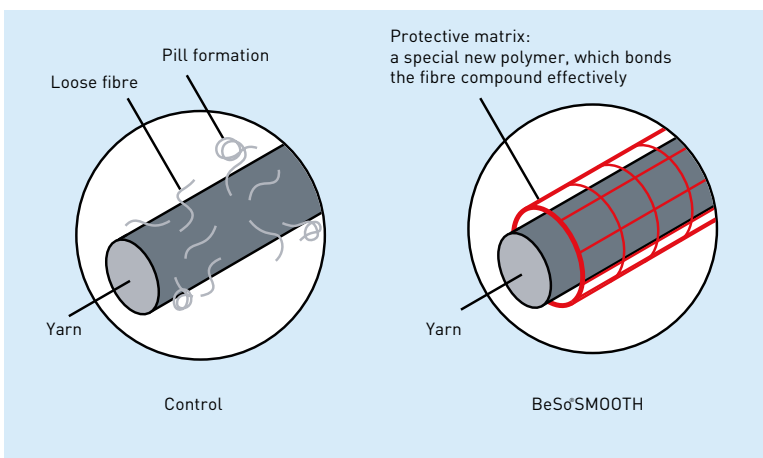
Smart effects with character

BeSo[®]SMOOTH – look good, feel great

Wearing something new is a real confidence booster. You simply know you look good and absolutely flawless. With BeSo[®]SMOOTH you can now rely on your garments to maintain their good-as-new looks for much longer. BeSo[®]SMOOTH significantly reduces the impact of everyday wear on textiles and effectively prevents inhibits pilling. With BeSo[®]SMOOTH, CHT offers the **best solution** to keep textiles neat. Waste no more time shaving fuzz off your garments.

BeSo[®]SMOOTH – just one of our smart effects with character.

Fibre protection



Based on a modular product system, which can be adjusted to given fabric quality and desired effect.

- ▶ Selected additives reduce the friction during fabric interaction
- ▶ Pill formation is reduced and the fabric surface remains clear
- ▶ Suitable for
 - cotton, viscose, synthetics and their blends
 - underwear, shirts or sweaters, trousers or sleep wear, bed sheeting or other home textiles
- ▶ Measured by determination of
 - fabric tendency to pilling (pilling box method/DIN EN ISO 12945-1)
 - fabric tendency to pilling (mod. Martindale method/DIN EN ISO 12945-2)
 - abrasion resistance (DIN EN ISO 12947-2/DIN EN ISO 12947-3)

Effective anti-pilling



Control

With BeSo[®]SMOOTH

BeSo[®]SMOOTH



This finish is equipped with:

Selected auxiliaries from the product families ARRISTAN, POLYAVIN, TUBINGAL and BEIZYM.



Our products meet the highest standards. Find out more at: www.cht.com/beso-smooth



BeSo[®]FRESH

- ▶ Protects textiles from odours
- ▶ Long-lasting freshness
- ▶ Less laundering needed

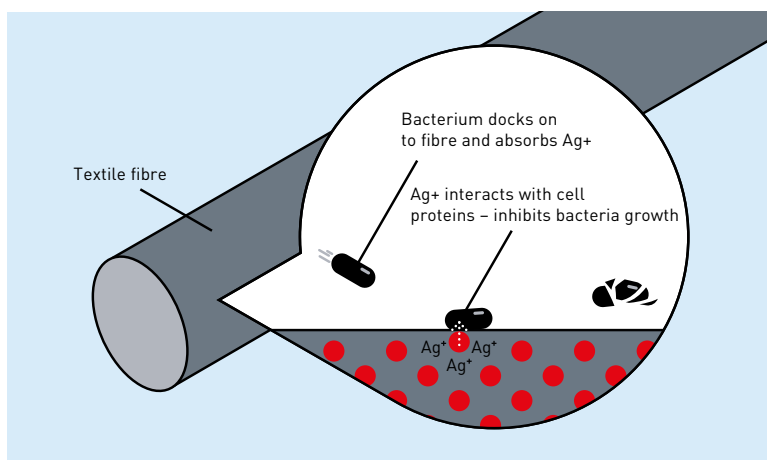
Smart effects with character

BeSo®FRESH – always ahead by a nose

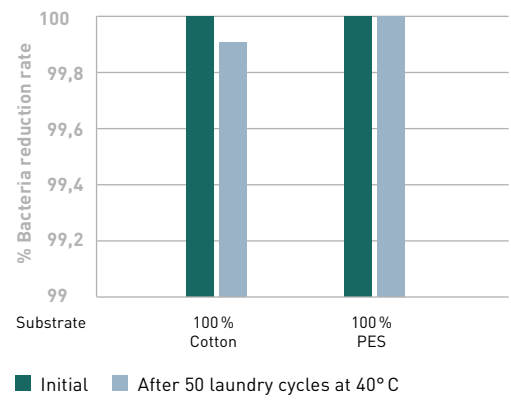
Whether it's headwind while cycling to work, holding an important presentation, or backpacking through Asia – don't sweat it! BeSo®FRESH will keep your textiles free from unpleasant odours. BeSo®FRESH inhibits the growth of bacteria and fungi that cause bad smells. With BeSo®FRESH, textiles need less laundering, which significantly increases their lifecycle and reduces the use of water, energy and detergents. BeSo®FRESH is CHT's **best solution** to keep textiles fresh.

BeSo®FRESH – just one of our smart effects with character.

Antibacterial effect of silver



Effective and wash proof



- ▶ Perfect for close-to-skin fabrics like underwear, sports cloth, hiking shirts, fleece, socks, linings, shoes and gloves, as well as home textiles such as towels and bed linen
- ▶ Effective even under extreme conditions
- ▶ Product iSys AG is silver based and bacteriostatic
- ▶ Product iSys ZNP is zinc pyrithione based, bacteriostatic and fungistatic
- ▶ Measured by
 - agar gel diffusion test (SN 195920)
 - shake flask test (ASTM E 2149)
 - inoculation test (JIS-L 1902/AATCC 100)

BeSo®FRESH



This finish is equipped with:
iSys AG and iSys ZNP



Our products meet the highest standards.
Find out more at: www.cht.com/beso-fresh



BeSo[®]PROTECTED

- ▶ Effective against vectors
- ▶ Keeps your protective garment comfortable
- ▶ Durable

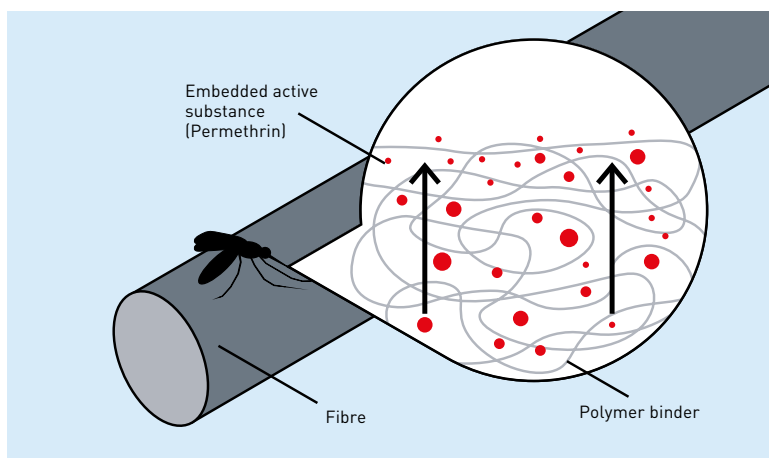
Smart effects with character

BeSo®PROTECTED – don't let the bugs bug you

While working outside, enjoying the great outdoors or having a lakeside barbecue with family and friends, nothing is more annoying than having to fend off pesky little parasites. Besides being a nuisance, mosquitoes, ticks and other vectors can also transmit serious diseases through their bites. BeSo®PROTECTED acts like an insect screen built into your textiles, keeping potentially hazardous insects away and preventing bites. With BeSo®PROTECTED, we offer our **best** solution to keep you safe from vectors.

BeSo®PROTECTED – just one of our smart effects with character.

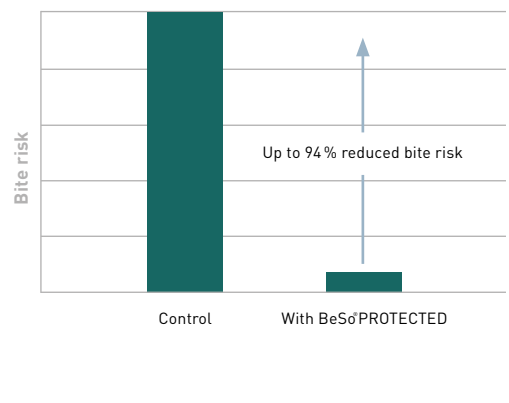
Reliable integrated insect repellent



BeSo®PROTECTED is based on a highly effective, proven formulation, which fully covers the fibres.

- ▶ Increased safety and comfort
- ▶ Suitable for outerwear, functional wear and special garments like tropical/work wear, but also for home textiles such as mattresses and bed sheets
- ▶ Stays highly effective on the textile
- ▶ Garments remain soft and breathable under all conditions
- ▶ Measured by
 - CHT internal analysis of active substance
 - WHO cone test
 - WHO tube test

Effective protection from vectors



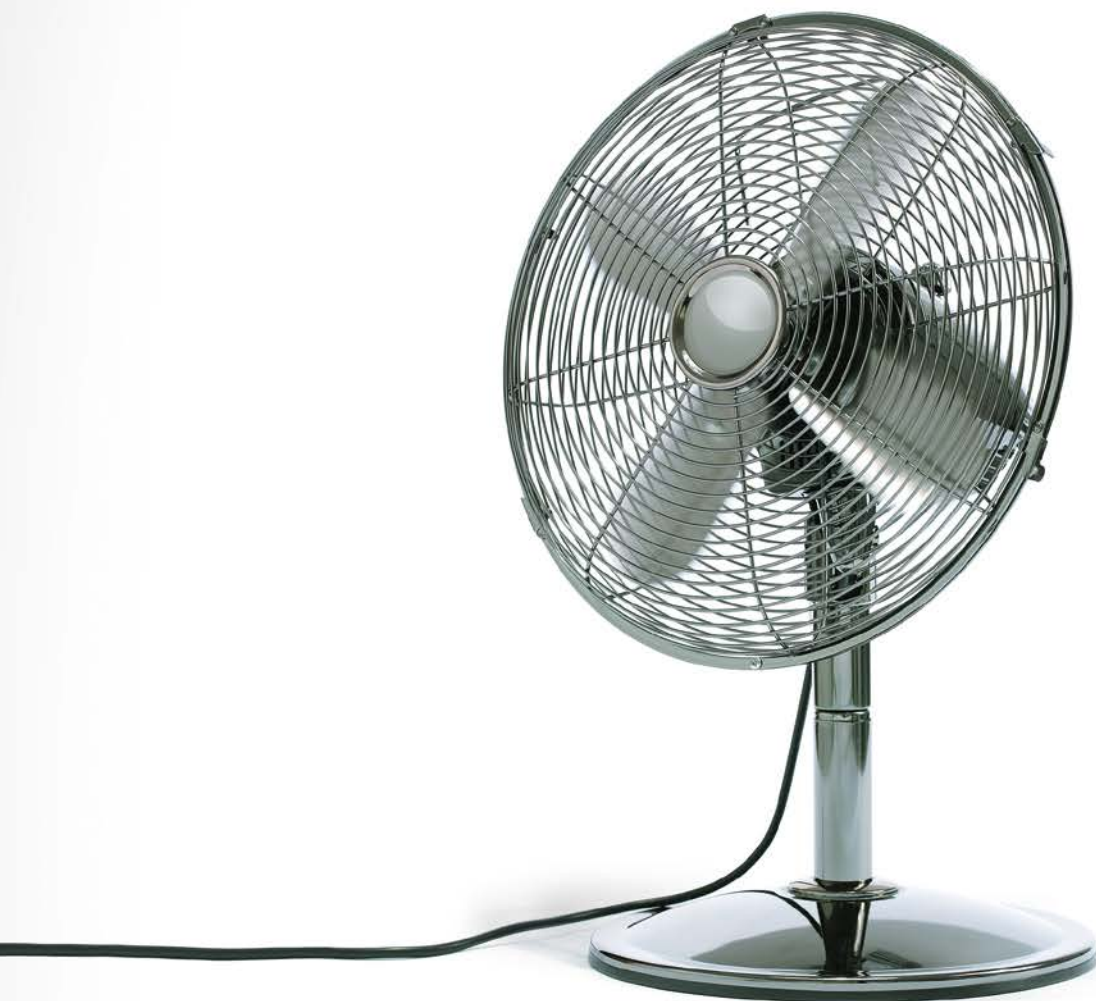
BeSo®PROTECTED



This finish is equipped with:
BEMATIN PER 40.



Our products meet the highest standards.
Find out more at:
www.cht.com/beso-protected



BeSo[®]C00L

- ▶ Stay cool, dry and comfortable
- ▶ Regulation of temperature and moisture
- ▶ Durable

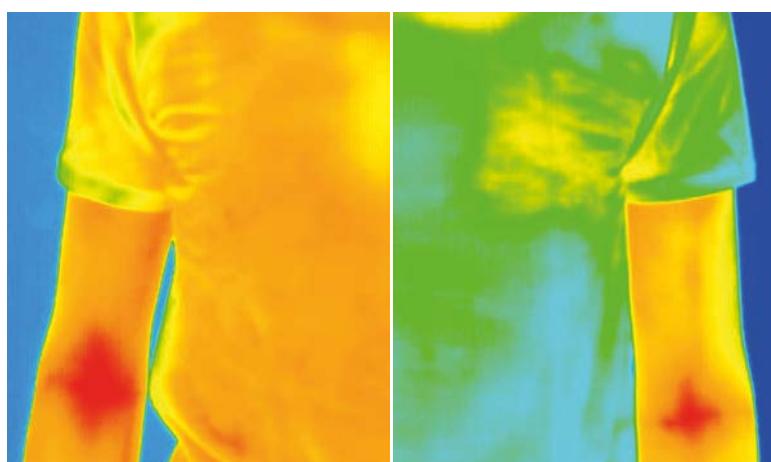
Smart effects with character

BeSo[®]COOL – activates when you get active

Now you can chase after that bus or pedal up that hill and still keep your coolness. With BeSo[®]COOL your workout – be it spontaneous or according to plan – will feel so much more comfortable. BeSo[®]COOL boosts moisture transport and fast evaporation, resulting in a significant temperature reduction and cooling sensation. Even at high temperatures, BeSo[®]COOL provides relief. With BeSo[®]COOL, comfort, style and functionality come together. Beat the heat with CHT's **best solution** for temperature regulation.

BeSo[®]COOL – just one of our smart effects with character.

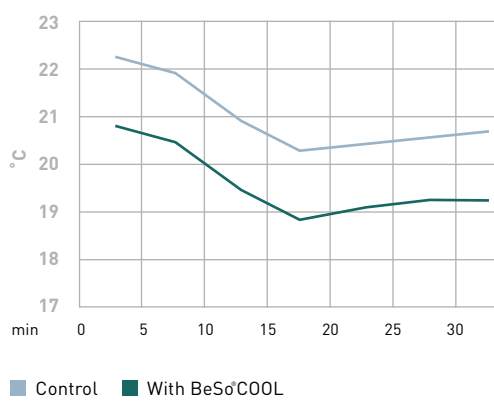
Cooling effect after increased activity



Control

With BeSo[®]COOL

Effective temperature regulation



- ▶ Provides thermal and moisture regulation on garments and fabrics based on a highly effective proven formulation
- ▶ Optimally suited for casual wear, sportswear, outerwear and bed clothes
- ▶ Ensures perfect performance and meets highest demands on comfort
- ▶ Measurement by cooling test: the temperature is monitored by an infrared camera

BeSo[®]COOL



This finish is equipped with:

Selected auxiliaries from the product families ARRISTAN, REAKNITT and TUBINGAL.



Our products meet the highest standards. Find out more at: www.cht.com/beso-cool



BeSo[®]SOFT

- ▶ High wearing comfort
- ▶ Pleasant feeling on the skin
- ▶ Good drape of the garment

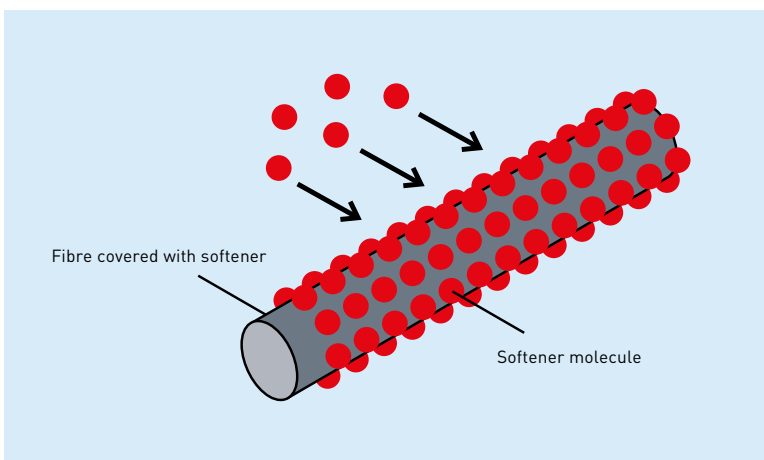
Smart effects with character

BeSo[®]SOFT – whatever you feel like

Whether you prefer your textiles cool, voluminous, soft, slippery or bulky, BeSo[®]SOFT offers tailor-made solutions for every demand. BeSo[®]SOFT is the unique, universal, modular tool kit to give your textiles the optimal hand feel. BeSo[®]SOFT gives standard fabrics a premium feel, high quality fabrics will perform to the top. BeSo[®]SOFT is a sustainable, durable and effective finish, which makes it one of CHT's **best solutions**.

BeSo[®]SOFT – just one of our smart effects with character.

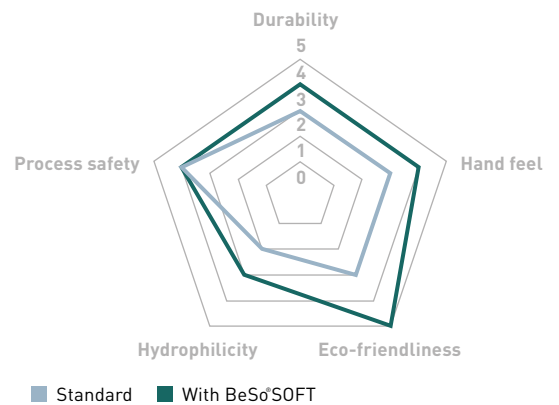
Optimal adjustment for individual demand



The various BeSo[®]SOFT products cover the fibre surface. Whether micro or macro emulsions, by precisely adjusting the composition, softness can be controlled individually.

- ▶ Universally suitable for any fabric and textile material
- ▶ Precisely adjusted composition for individual softness control
- ▶ Measured simply by touch
- ▶ New product based on recycled and renewable raw materials available to support your roadmap to circularity

Effective and versatile



BeSo[®]SOFT



This finish is equipped with:

Selected auxiliaries from the product families ARRISTAN, REAKNITT and TUBINGAL.



Our products meet the highest standards. Find out more at: www.cht.com/beso-soft



BeSo[®]STRETCH

- ▶ Long-lasting fit of the garment
- ▶ Better stretch and recovery properties
- ▶ Comfortable feeling

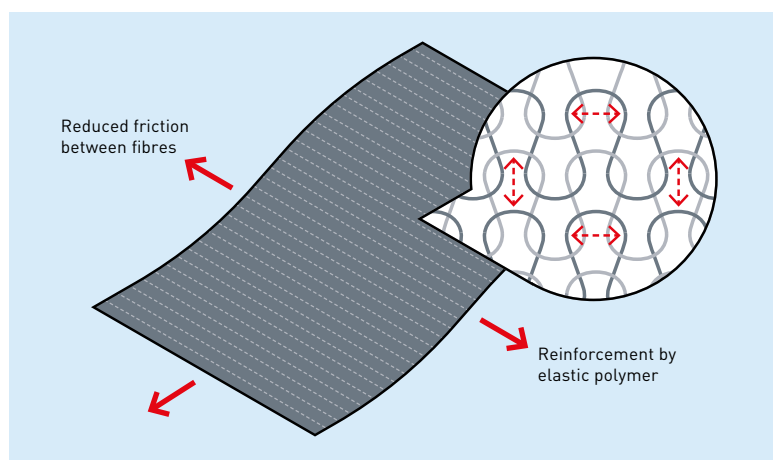
Smart effects with character

BeSo®STRETCH – always fit and flexible

The more you exercise and flex and stretch, the more you stay in shape. With garments it is often the other way around. The more you stretch them, the more they fall out of shape. Our BeSo®STRETCH textile finish gives you full freedom of movement and allows your garments to go along with your active lifestyle without losing their perfect fit. BeSo®STRETCH is CHT's **best solution** for clothes that keep their shape for longer, while remaining soft and breathable.

BeSo®STRETCH – just one of our smart effects with character.

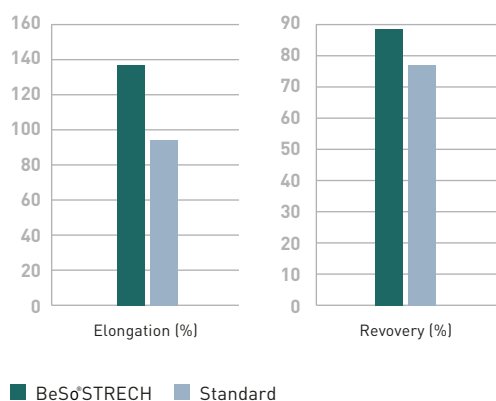
Maximum elasticity



With BeSo®STRETCH, garments can be stretched in all directions without losing their tight fit. The finish covers the entire fibre with a thin elastic film.

- ▶ Optimally suited for all kinds of activewear, athleisure and casual wear
- ▶ Provides excellent elasticity on cellulosic, synthetics and blends
- ▶ Based on a highly elastomeric polymer mixture
- ▶ Measured by determination of elastomeric properties (EN 14704-1)

BeSo®STRETCH



BeSo®STRETCH



This finish is equipped with:

Selected auxiliaries from the product families ARRISTAN and TUBINGAL.



Ø ZDHC
CONTRIBUTOR

Our products meet the highest standards.
Find out more at:
www.cht.com/beso-stretch



BeSo[®]EASY

- ▶ Improved shape and dimension stability
- ▶ Less creasing and wrinkling
- ▶ Easy-to-iron up to non-iron properties

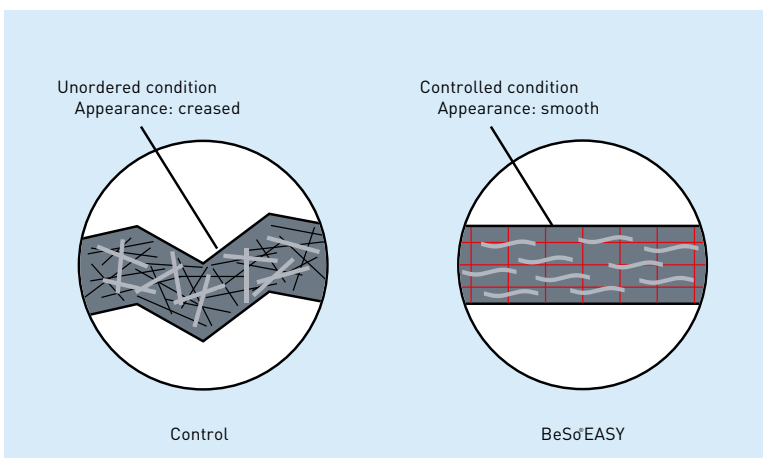
Smart effects with character

BeSo®EASY – always ready to go

We've all been there: you need to look presentable at a minute's notice, and the last clean shirt you pull from the hanger is wrinkly as a prune. BeSo®EASY will turn your frown upside down. It keeps garments free of wrinkles with an innovative anti-crease technology. BeSo®EASY means long-lasting and outstanding performance, while providing easy wash and care properties. BeSo®EASY is CHT's **best solution** for clothes to keep their shape, so you never have to worry about creasing again.

BeSo®EASY – just one of our smart effects with character.

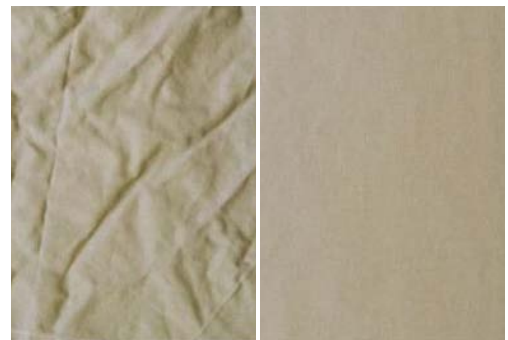
Reorganisation of the fibre direction



Our product system BeSo®EASY reacts with the cellulosic fibre and increases the crystalline fibre areas. The swelling of the fibre in water is reduced. Altogether the wet and dry crease tendency is decreased effectively.

- ▶ Formaldehyde-free
- ▶ Suitable for any fabric made out of cellulosic fibres
- ▶ Knitwear, like t-shirts and underwear, keeps its shape
- ▶ Woven articles, like shirting and trousers, show less shrinkage and reduced creases
- ▶ Measured by
 - crease recovery angle (ISO 2313)
 - smoothness appearance (AATCC 124/DIN EN ISO 15487)
 - determination of dimensional change (DIN EN ISO 3759)
 - tensile properties of fabrics (DIN EN ISO 13934-1)
 - tear properties of fabrics (DIN EN ISO 13937-1)

Effective crease protection



Control

With BeSo®EASY

BeSo®EASY



This finish is equipped with:

Selected auxiliaries from the product families REAKNITT and POLYAVIN.



Our products meet the highest standards.
Find out more at: www.cht.com/beso-easy



BeSo[®]ACTIVE

- ▶ Enhanced evaporation of body moisture
- ▶ Fast drying
- ▶ Comfortable skin feeling

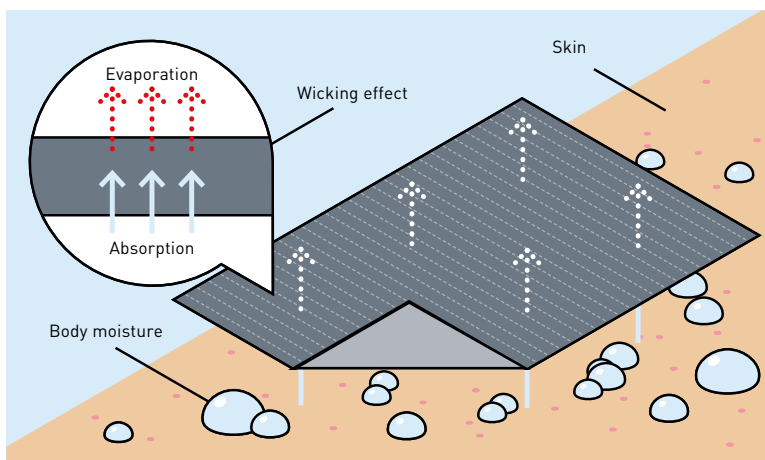
Smart effects with character

BeSo[®]ACTIVE – don't let moisture dampen your comfort

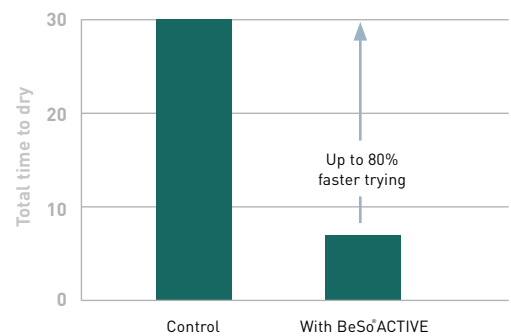
When cycling the scenic route, sometimes it is great to stop a while and take it all in or just catch your breath. But sweaty clothes will soon make you feel uncomfortable. Garments with BeSo[®]ACTIVE efficiently absorb body moisture and transport it to the outside of the fabric where it quickly evaporates. Thus, BeSo[®]ACTIVE provides a drier, comfortable skin feeling. BeSo[®]ACTIVE is the **best solution** of CHT's moisture management that combines comfort and softness along with a wicking effect and fast-drying performance.

BeSo[®]ACTIVE – just one of our smart effects with character.

Body moisture transport



Effective fast drying technology



- ▶ Optimally suited for all kinds of activewear
- ▶ Functionalises underwear, hosiery or socks
- ▶ Increases feel-good-factor in home textiles
- ▶ Provides excellent performance on cotton, synthetics and blends
- ▶ Measured by
 - evaporation test (M&S P 136 A)
 - wicking test (M&S P 136 B)
 - drop test (AATCC 79)

BeSo[®]ACTIVE



This finish is equipped with:

Selected auxiliaries from the product families ARRISTAN and TUBINGAL.



Ø ZDHC
CONTRIBUTOR

Our products meet the highest standards.
Find out more at:
www.cht.com/beso-active



BeSo[®]LASTING

- ▶ Lasting colours
- ▶ Stay brilliant after multiple washes
- ▶ Look new for longer

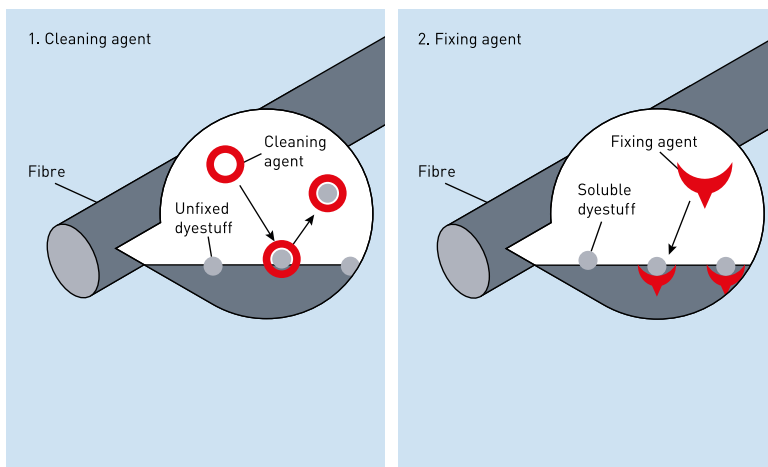
Smart effects with character

BeSo®LASTING – your high-performance colour fastness

You like to show your colours and your style with confidence? Enjoy new freedom with exceptional long-lasting colour brilliance in your beloved garments. Everyday! BeSo®LASTING is CHT's **best solution** that combines dyestuff and high-performance technologies to fasten colours in all fibres and blends, so your favourite clothes will look new for longer.

BeSo®LASTING – just one of our smart effects with character.

Works with two different technologies



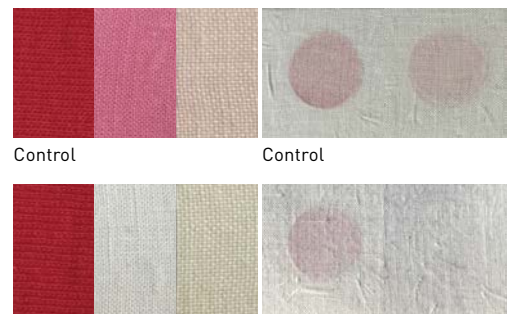
1. High-performance fibre cleaning/
cleaning performance

2. Clever dyestuff anchoring system/
anchoring performance

- ▶ Universal toolbox with high-performance dyestuffs and auxiliaries
- ▶ Reach your colour fastness level
- ▶ Suitable for all fibres and blends
- ▶ Same true colour after multiple washes
- ▶ Extended life cycle of the garment
- ▶ Simply the best quality

- ▶ Measured by
 - wash fastness (DIN EN ISO 105-C06/C2S)
 - water fastness (DIN EN ISO 105-E01)
 - perspiration fastness (DIN EN ISO 105-E04)
 - rubbing fastness (DIN EN ISO 105-X12)
 - chlorinated water fastness (DIN EN ISO 105-E03)
 - light fastness (DIN EN ISO 105-B02)

Effectively enhancing fastness



Control Control
With BeSo®LASTING With BeSo®LASTING
Colour fastness results: contact and rubbing fastness

BeSo®LASTING



This high-performance colour fastness is equipped with:

Dyestuffs from our Bezema Colour Solutions product ranges BEZAKTIV HP, BEMACRON HP, BEMACRON Selection and BEMAPLEX D.

Selected auxiliaries from the following product families: COTOBLANC, REWIN, REVOFIX, REDULIT, INTENSOL and PAFIX.



Our products meet the highest standards.
Find out more at:
www.cht.com/beso-lasting



BeSo[®]RESPONSIBLE

- ▶ Ecological textile dyeing
- ▶ Save energy and water
- ▶ Your contribution to protecting nature

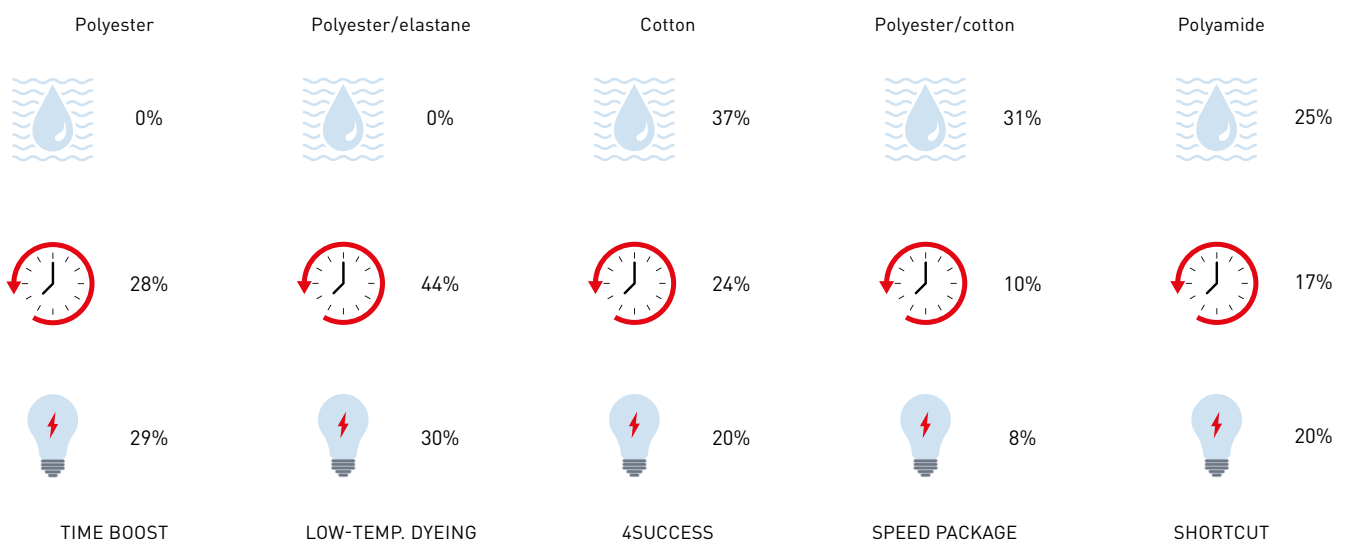
Smart effects with character

BeSo®RESPONSIBLE – your resource-efficient concept

Clothing is essential for our life. However, textile production requires a tremendous amount of energy and water. Did you know that the fashion industry currently uses around 79 billion cubic metres of water? It is time for a rethink! With the BeSo®RESPONSIBLE system, we empower you to save water, energy and CO₂. BeSo®RESPONSIBLE is CHT's **best solution** that can be tailored to your individual requirements, ensuring optimal efficiency during the entire textile dyeing processes. It is up to you to take responsibility!

BeSo®RESPONSIBLE – just one of our smart effects with character.

Potential savings for different fibres



- ▶ Sustainable optimisation of your processes
- ▶ Ecological savings due to minimal consumption of water and energy
- ▶ The key to strengthening your sustainability strategy
- ▶ In support of the United Nations Sustainable Development Goals
- ▶ Measured by
 - monitoring process time, consumption of water and energy, comparing to standard process

BeSo®RESPONSIBLE



The resource-efficient concept is equipped with:

Dyestuffs from our Bezema Colour Solutions product ranges BEZAKTIV GO, BEMACRON HP-LTD, BEMACRON RS and BEMACID E-TL.

Selected auxiliaries from the following product families: COTOBLANC, REWIN, REVOFIX, REDULIT, INTENSOL and PAFIX.



Our products meet the highest standards. Find out more at: www.cht.com/beso-responsible



BeSo[®]FREE

- ▶ Water-based screen printing
- ▶ PVC-free and phthalate-free
- ▶ Soft touch

Smart effects with character

BeSo®FREE – water-based screen printing

What does being free mean to you? Maybe to let your creativity run free and design what you want without making compromises? We have therefore developed the **best solution** for water-based screen printing: BeSo®FREE. Be free in the creation of your print designs with all kinds of effects, brilliant colours and soft touch. Be free from plastics, solvents or other pollutants. This water-based solution gives you all freedom in design without compromising on environmental friendliness or performance.

BeSo®FREE – just one of our smart effects with character.

Performance of BeSo®FREE

Application examples



Crack



Gloss/glitter



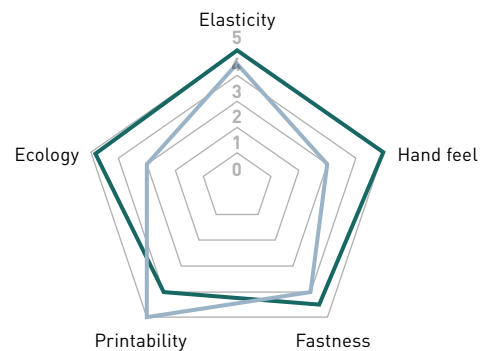
Foam/3D



Matt gloss

- ▶ Complete range of the best water-based products for screen printing
- ▶ Formaldehyde-free range available
- ▶ Different product bases for all demands available:
 - for a nice, soft grip
 - for highly elastic garments
 - for highest ecological demands like C2C (ecoprint by CHT), GOTS or bluesign®
- ▶ High process and product performance
- ▶ Ready to use
- ▶ Works on different garments, e.g. T-shirts, outerwear jackets, swimwear

Properties



■ Standard plastisol ■ With BeSo®FREE

- ▶ Digital recipe service
 - www.cht.com/colorfinder
- ▶ Measured by:
 - fastness level
 - CF to washing
 - CF to rubbing (dry/wet)
 - CF to saliva
 - CF to perspiration

BeSo®FREE



The BeSo®FREE effect is equipped with:

Pigments from our Bezema Colour Solutions product ranges BEZAFLUOR FF and COLORMATCH.

Selected auxiliaries from the following product families: PRINTPERFEKT, TUBASSIST, TRANSPRINT, TUBISCREEN.



Our products meet the highest standards. Find out more at: www.cht.com/beso-free



BeSo[®]BRIGHT

- ▶ Brilliant, long-lasting optical white
- ▶ Suitable for all fibres
- ▶ Prolongs garments life cycle, and economically sustainable

Smart effects with character

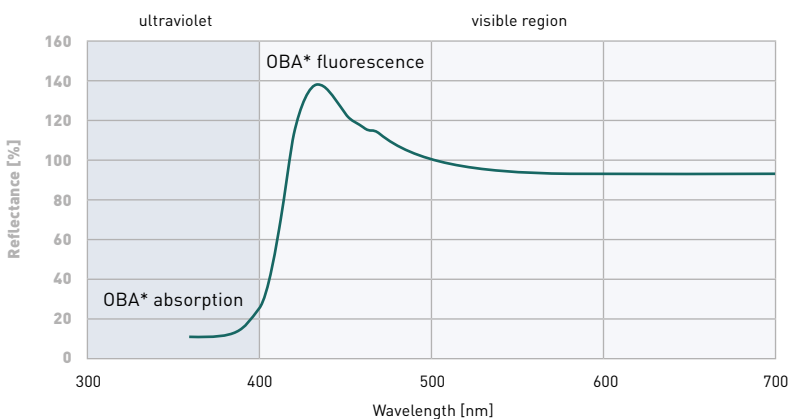
BeSo®BRIGHT – for a long-lasting brilliant white

White – friendly, tidy, professional. From shirt to sheet, from coat to cover, this classic will never go out of style. A little-known fact about white textiles is that their production is actually quite challenging. It takes the brightest minds to ensure that untainted newly bought brilliance lasts as long as possible and you can wear your beloved garments longer to reduce the environmental impact. Our **best solution** BeSo®BRIGHT lets white textiles shine on, without disturbing the environment.

BeSo®BRIGHT – just one of our smart effects with character.

How BeSo®BRIGHT works

Whiteness – reflectance spectra



BeSo®BRIGHT transforms the invisible UV light (<400 nm) into visible bluish-violet light and reflects more than 100%

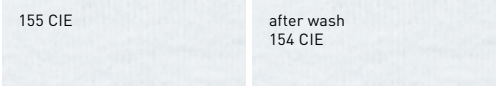
- ▶ Long-lasting whiteness and brightness
- ▶ Prolongs garment life cycle
- ▶ Prevents greying and yellowing even after multiple washes
- ▶ Applicable for woven and knit textiles
- ▶ On cellulose:
 - wash durability
 - acid stability
 - for all applications and especially for continuous applications with superior wash durability

Durable white

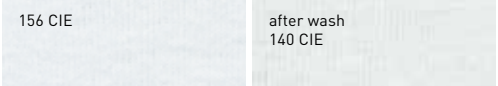
Before OBA*



BeSo®BRIGHT



Conventional



Performance of BeSo®BRIGHT compared to conventional products after three household wash cycles (60 °C)

- ▶ On polyester:
 - bright white and superior fastness
- ▶ On polyamide:
 - highest white effect
- ▶ Measured by:
 - visual evaluation
 - degree of whiteness/values regarding formula e.g. CIE, BERGER, GANZ
 - reflectance spectra

BeSo®BRIGHT



The BeSo®BRIGHT effect is equipped with:
TUBOBLANC.



Ø ZDHC
CONTRIBUTOR

Our products meet the highest standards.
Find out more at: www.cht.com/beso-bright

*OBA = optical brightening agent