



BeSo[®] GUARDED

Go easy and preserve your jeans

Bacteriostatic agent and water-repelling finish to reduce need for laundering and increase the lifecycle of garments.

With DENIMCOL SPEC-zeroF 4 + iSys AG

BeSo[®] GUARDED

- ▶ Effective against microbials (99.99%)
- ▶ Antimicrobial activity on finished textiles approved (ISO 18184)
- ▶ Protect yourself and your environment

TOGETHER
AGAINST
COVID-19

FROM PROFESSIONALS
FOR PROFESSIONALS



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SMART CHEMISTRY
WITH CHARACTER.

When washing a jeans...

Your favourite pair of clothing wins a bit of character with every wear.

And loses when you wash them. A bit of colour, a bit of fit, a bit of character.

So why not equip it with some skills that will keep them fresh and protect them from spillings... ?

A functional finish on your favourite pair of trousers that inhibits the growth of bacterial odours and will keep it fresh even without washing. A perfect fit with a layer of water and soil repelling finish that helps to protect your clothes from spillings and soil.

This will reduce the necessity to wash them often and extend their life expectancy.

The bacteriostatic effect of iSys AG inhibits the growth of bacteria. This way, the formation of unpleasant odour through the bacterial decomposition of sweat is eliminated. iSys AG is based on effect of the substance silver chloride, that deactivates and destroys bacteria.

DENIMCOL SPEC-zeroF 4 will keep liquids from penetrating the textile surface, preventing soiling by alcohol or water-oil based soils. The decreased liquor penetration will also improve the release of soils during washing processes.

The combination of the bacteriostatic product iSys AG with the water repelling DENIMCOL SPEC-zeroF 4 works perfectly to reduce the need for laundry and increase their lifecycle.

Effective, antibacterial protection with iSys AG

- Silver-component in compliance with BPR 528 / 2012
- Skin compatibility tested
- Suited for OEKO-TEX®
- Listed in ZDHC Gateway
- bluesign® listed



Water repellency with DENIMCOL SPEC-zeroF 4

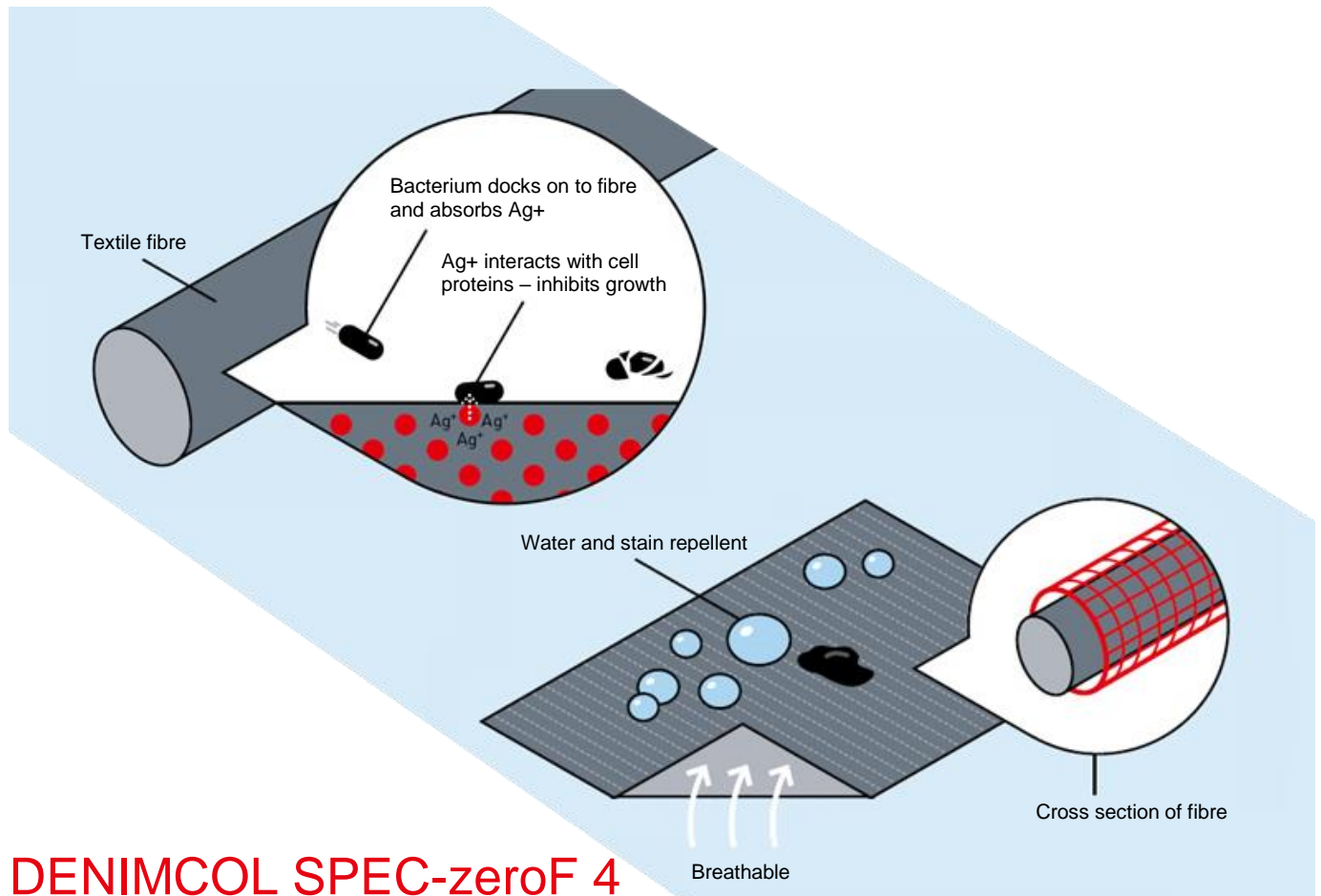
- Fluorocarbon-free
- Effective protection against water and water-based stains
- Optimally suited for outdoor clothing, athleisure, work wear
- Excellent performance on cotton, synthetics and blends

iSys AG

Odour-resistant, inhibits bacteria growth

Function Bacteriostatic
Topic Freshness finish, anti-odour finish
Chemical structure: Silver chloride

Performance Binds and destroys bacteria on the surface, prevents bacteria from growing on the textile. Neutralizes undesired odours.



DENIMCOL SPEC-zeroF 4

Prevents penetration of soil and water

Function Water repellency
Topic Water repellency without fluorocarbons
Chemical structure: paraffin dispersion
Ionic character: cationic

Aspect: Liquid
Performance: Effective water and soil repellency without loss in breathability. Improve the soil-release during the washing process.
Performance 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)

Material requirements

Any garments with residue chemical products, especially tensides, should be prewashed well.

Residues of chemicals can hinder the effect of the silver-component or even block it completely.

If the garment has not been desized and stonewashed, we recommend to prewash with the stated process.

Application process

Exhaust method

Liquor ratio 1 : 6 - 1 : 8		
pH 5.0 with acetic acid		
iSys AG	0.3 - 1.0	%
DENIMCOL SPEC-zeroF 4	6.0 - 10.0	%
DENIMCOL SPEC-FIX H26	1.0 - 3.0	%

20 min, 50°C
hydro extract
dry in tumbler at 90-100°C
Fix at 150°C for 8 min.

Prewash recommendation

Liquor ratio 1:8

DENIMCOL WASH-CPD	1.0	g/l
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or DENIMCOL WASH-WN	0.5	g/l
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10 min, 40°C

Rinse warm and cold.

Continue with normal exhaust or dipping process.

- Needed if there is risk of residues of chemicals from previous treatment steps
- Or if you want to apply the system on already finished garments

Dipping Application

pH 5.0 with acetic acid		
iSys AG	3.0 – 10.0	g/l
DENIMCOL SPEC-zeroF 4	80 – 120	g/l
DENIMCOL SPEC-FIX H26	20 – 30	g/l

dip the garments into the cold liquor
hydro extract to 70-80 % pickup
dry in tumbler at 90-100°C
Fix at 150°C for 8 min.

After home laundry cycles, ironing the garment can increase water repellency.

Regulation and Labels

Prior to using our products please make sure that the intended use complies with the legal requirements. Please note that the application of our product as well as the use of the finished material do not lead to undesired effects which necessitate an official notification or registration. We additionally recommend checking whether any precautions need to be taken to protect the operating staff or the environment.

Please note the information in the technical datasheet.

Use biocides safely. Always read the label and product information before use.

Find more smart effects with character:
www.cht.com/beso



For further information please feel free to contact us by e-mail:

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