



 **Cell Solution**<sup>®</sup>  
BIOACTIVE

## Antimicrobial/antiviral cellulose fiber

*Active protection against bacteria and viruses*

### Cellulose – a natural product

Cell Solution<sup>®</sup> BIOACTIVE is made of wood from sustainable forestry. Cellulose is breathable and regulates moisture. Textiles made of cellulose are more absorptive than cotton, they are silkier than silk and cooler than linen. The fiber naturally absorbs excess moisture and takes it to the outside. The ability of cellulose to transport moisture is superior to that of the synthetic fiber. The fiber structure supports a pleasant skin climate and is temperature-balancing.

### Cell Solution<sup>®</sup> functional fibers

The fibers are produced particularly environmentally friendly with the patented ALCERU<sup>®</sup> procedure. The active substance is directly integrated into the cellulose matrix imparting a permanent additional function to the fiber.

### Ecological high-tech fiber

Cell Solution<sup>®</sup> BIOACTIVE fibers exhibit a pleasant skin climate and excellent moisture absorption. The cellulose matrix is equipped with antimicrobial and / or antiviral functions imparting hygienic properties as well as a protection against harmful bacteria, viruses and germs. Nanotechnology is not used in the production procedure.



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# Innovations characterize range of products

## Antimicrobial and antiviral properties

Cell Solution® BIOACTIVE is a natural cellulose fiber provided with antimicrobial properties. Besides a natural skin climate harmful bacteria and germs can be fended off.

Simultaneously, Cell Solution® BIOACTIVE is safe against viruses like Influenza or Covid-19. Even after 30 sec 99.9% of viruses are killed.

Both features are maintained throughout the entire life of the textile product. Only a proportion of 2 – 6% in nonwoven or garment is efficient.

## Pure luxury for the skin

Cell Solution® BIOACTIVE is the natural barrier against bacteria, fungi, viruses and other pathogens. Imparted antimicrobial functions render harmful bacteria harmless, antiviral features destroy virus shells. Positive side effect: Unpleasant odors are eliminated in this way.

Textiles containing Cell Solution® BIOACTIVE are used in medical technology and are one of the most efficacious and natural remedies in this field. The healing process, in particular, of open wounds and neurodermatitis is accelerated. This is caused by the

blocking effect on bacterial growth. Due to these properties Cell Solution® BIOACTIVE products are particularly suitable for highly sensitive people. Furthermore, when Cell Solution® BIOACTIVE is used in face masks their effectivity within very short time makes virus containing aerosols inactive.

## Proven effects

- moisture-regulating
- temperature-regulating
- antistatic
- soft on skin
- regenerating
- antimicrobial (acc. to DIN EN ISO 20743)
- antiviral (acc. to ISO 18184, Hohenstein report)
- odor-inhibiting
- washable (50 washing cycles, temperature of 40°C, disinfectants or cleaners containing chlorine should not be used due to the antibacterial fiber properties)
- dyeable with direct, reactive and HT procedures
- listed as a material with bioactive properties with OekoTex® (Accepted chemical products)

## Fields of Application

The developed balanced fiber blends permit the manufacture of nonwovens and textiles for clothes, health and living as, for instance:

- Office, work, sports and leisure textiles
- Underwear, stockings and socks
- Terry articles and massage toppers
- Baby and kids clothes
- OP clothes, medical dressings
- Medical wear and hospital textiles
- Neurodermatitis clothes
- Home textiles such as bedding, bedlinen and mattresses
- Face masks



Please contact us if you have any further questions or would like to have more information.

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