



 **Cell Solution**[®]
BIOACTIVE

Antimicrobial cellulose fiber

Active protection of the human skin

Cellulose – a natural product

Cell Solution[®] 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 progresses it away from the body. 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[®] functional fibers

The fibers are produced particularly environmentally friendly with the patented ALCERU[®] 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[®] BIOACTIVE fibers for a pleasant skin climate and excellent moisture absorption. Silver ions are integrated into the cellulose matrix imparting an antimicrobial function to the cellulose. Nanotechnology is not used in the production procedure.



a product of  **smart
polymer**

Innovations characterize the range of products

Antimicrobial properties

Cell Solution® BIOACTIVE is a natural cellulose fiber with antimicrobial properties. The combination of cellulose fiber and silver ions makes the fiber a natural skin protection that is maintained throughout the entire life of the textile product.

Pure luxury for the skin

Cell Solution® BIOACTIVE is the natural barrier against bacteria, fungi and other pathogens. Positively charged silver ions can absorb the electronegative charge of harmful bacteria and render them harmless. Positive side effect: Unpleasant odors are eliminated in this way. Silver-containing textiles 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 of silver on bacterial growth. Thanks to these properties Cell Solution® BIOACTIVE products are particularly suitable for highly sensitive people.

Proven effect

- moisture-regulating
- temperature-regulating
- antistatic
- soft on skin
- regenerating
- antimicrobial
- odor-inhibiting
- washable, maximum washing temperature of 60°C
- Disinfectants or cleaners containing chlorine must not be used, due to the antibacterial fiber properties
- listed as a material with bioactive properties with OekoTex®

Fields of Application

The developed balanced fiber blends permit the manufacture of 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, mattresses



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

Contact

smartpolymer GmbH
Breitscheidstraße 97
07407 Rudolstadt
Thuringia - Germany
Phone: +49 3672 3790
info@smartpolymer.de
www.smartpolymer.de

