



**ODOR CONTROL TECHNOLOGY**

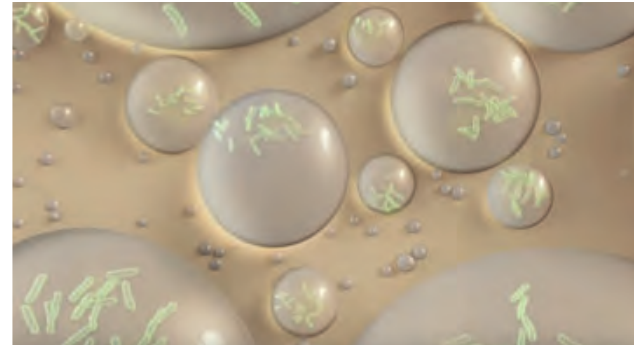
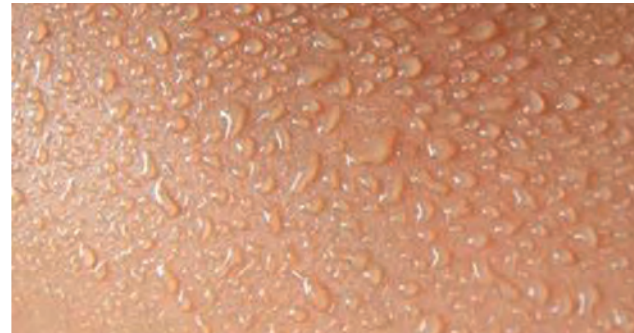
[www.kc-textil.com](http://www.kc-textil.com)

**OdAbsorb**

Sweat glands are vital in the human body's cleansing process, allowing the release of chemicals and toxins.

Sweat is odorless but also contains proteins and fatty acids, which bacteria love to feed on.

Odor molecules are the waste products of these bacteria, which are detected by the olfactory receptors in the human nose.

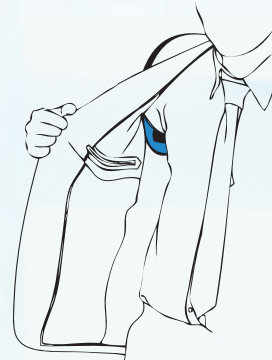




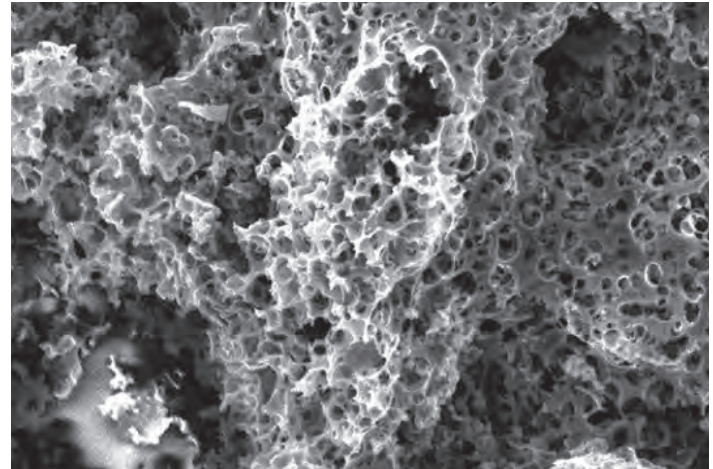
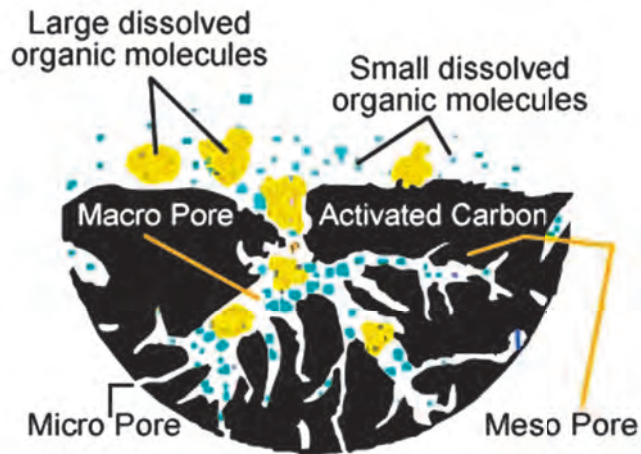
Despite daily hygiene, sweat invariably penetrates clothing along with the bacteria that are feeding on it. Daily odor development in shirts and t-shirts is minimized by daily laundering, but this is not possible in outerwear.

Antibacterial finishings on textiles provide little remedy and they can be harmful to the body and to our environment.

*The more effective way to minimize unwanted odors in clothing is therefore not to kill the bacteria but to absorb the odor molecules they emit.*



Since decades, activated carbon materials are celebrated for their effectivity in cleansing air and water from unwanted molecules.

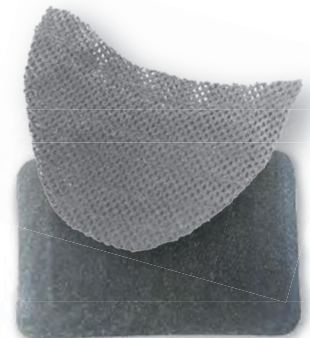
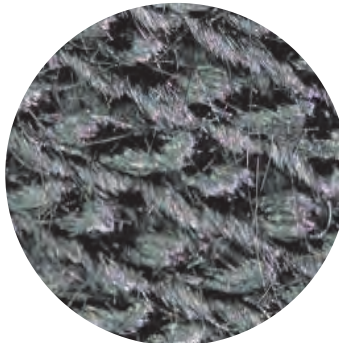


In gas masks, air filters, cosmetics, medicines, water treatment and countless other applications, the enormous absorption properties of the millions of nanopores in each gram of this material has amazed scientists.





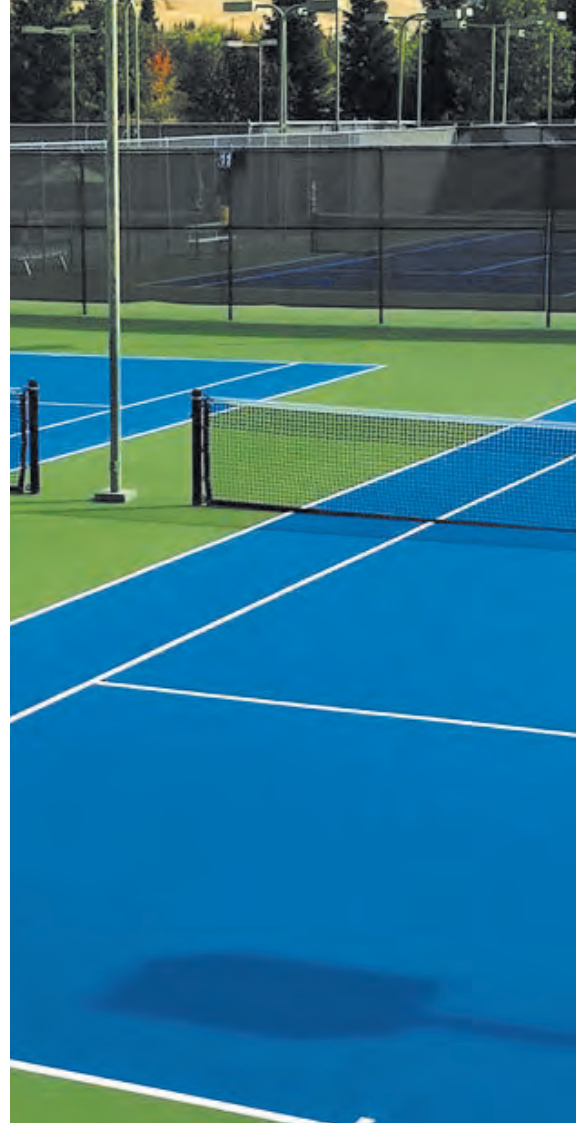
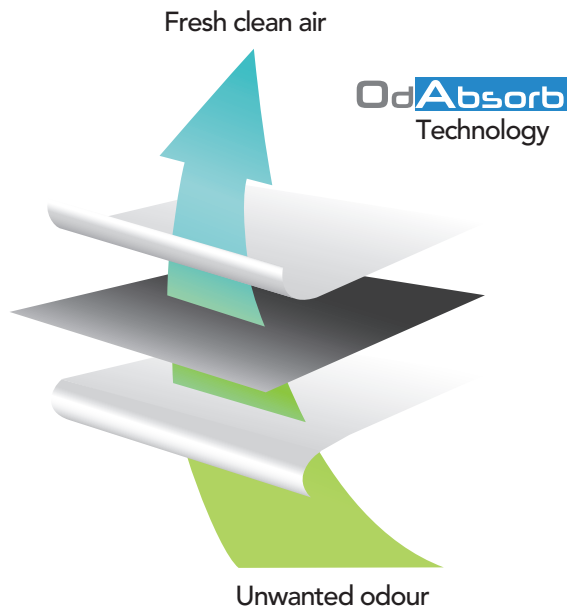
We have used activated carbon to make a special fabric, which enables the clothing industry to utilize its high abilities to capture and trap odor molecules. Our products come in form of pre-manufactured fusible patches and inlays, for easy integration into all kinds of garments.





Only one gram of the activated carbon material provides a surface area of 1150 square meters.

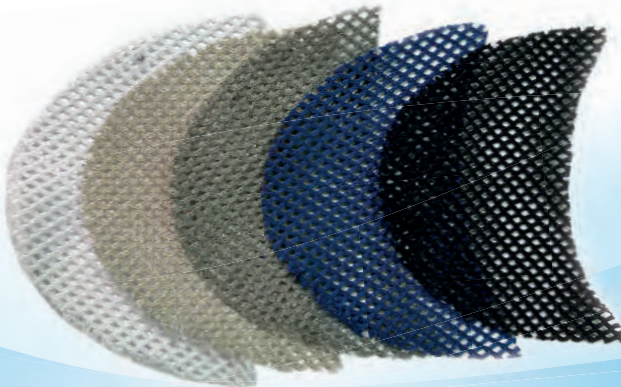
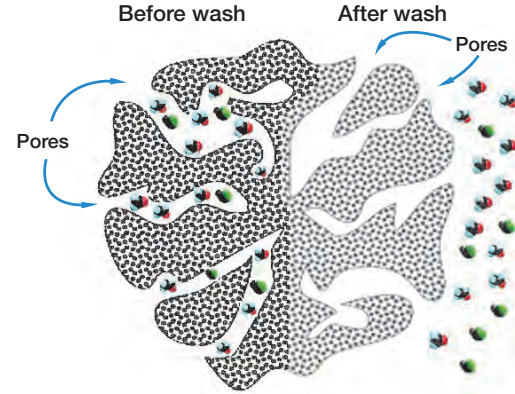
In one patch or inlay the resulting effective surface area is more than that of a tennis court.



Odor molecules are exposed to the Van der Waals force, a molecular force which attracts and traps them in millions of nanopores.

During the exposure to temperature in washing, drying, ironing or dry-cleaning, the trapped molecules are released again which restores the absorption capacity.

The Odabsorb patches and inlays „recharge“ and carry on working for the lifetime of the garment.





**OdAbsorb**

Please contact us for more information.  
Our technicians will be happy to assist you.



• WEARABLE TECHNOLOGIES •

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