



FRESHOLOGYTM FOR TEXTILES

CUTTING-EDGE TECHNOLOGY THAT REDUCES
A WIDE RANGE OF ODORS SIMULTANEOUSLY

Who is Microban International?

Microban International is a global leader in built-in antimicrobial and odor control solutions.



Utilized by
800+
companies worldwide

Proudly displayed
on more than
1000 products

Acknowledged as an industry Trustmark, Microban® technologies are utilized by more than 300 brands in over 50 countries.

What is odor capture technology?

The main causes of odor in textiles are organic carboxylic acids, which can cause persistent or permanent odor. Microban® odor capture technologies form a protective barrier on the fabrics that traps and neutralizes body odor, preventing offensive smell during use and between washings. The odor is either released during normal laundering or is neutralized after extended use depending on the platform, leaving the fabric refreshed and ready to be used again!

How can we help?

Once you've made the decision to implement odor protection into your product line, Microban's product development team will work with you on each project phase to ensure success. From initial concept and additive integration to official product launch, your dedicated account team will be by your side to deliver a suite of turnkey support services.

Nature-inspired* odor control technology, freshology, offers cutting-edge performance by neutralizing a wide range of odors simultaneously, keeping textiles fresher for longer.

WHY FRESHOLOGY?

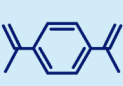
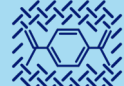
- Meets GB/T 33610 and ISO 17299 standard for 4 key odorants.
- Heavy metal-free – more environmentally friendly solution with no metal-based chemistries.
- Enhanced hand-feel and improved wicking performance.
- Mill friendly – easy incorporation into existing manufacturing process.
- Wash less – saving time, money and energy.

*The Microban technology used in this product contains plant extracts and minerals found in nature and used in multiple consumer product applications.

NEUTRALIZES DIVERSE SET OF ODORANTS

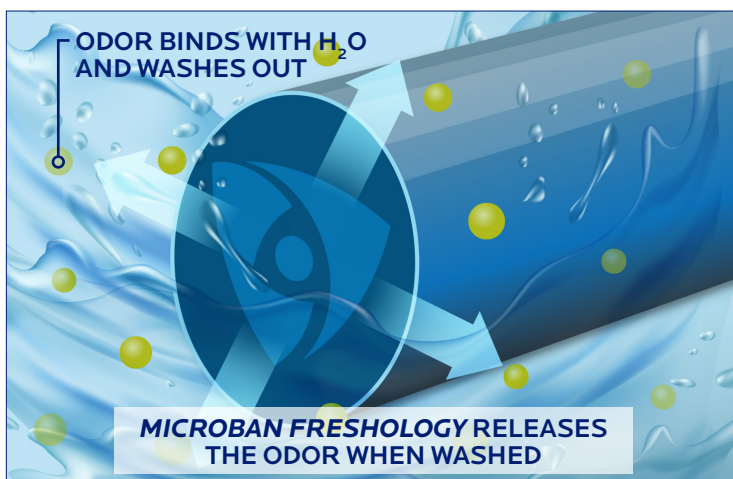
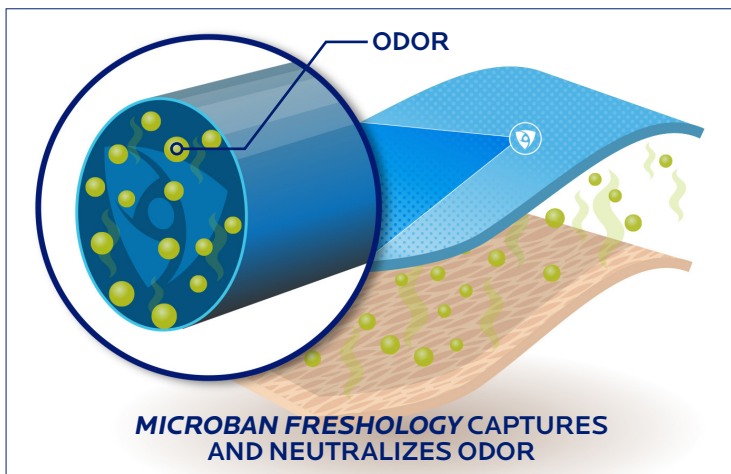
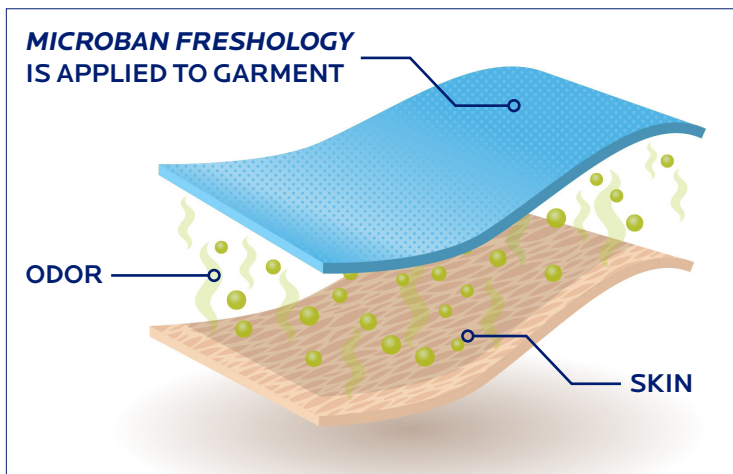
 Sweat/foot odor Isovaleric acid (IVA)	 Body odor Acetic acid (HOAc)	 Underwear odor Ammonia (NH3)	 Aging body odor Nonenal
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MATERIAL APPLICATIONS

 POLYESTER	 POLYESTER RICH BLENDS	 NYLON	 SPANDEX	 ACRYLIC
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How Does It Work?

Applied to the fabric during the manufacturing process, Freshology™ forms a protective barrier on fabrics that attracts and traps odor, preventing textiles from emitting offensive smells during wear and between washings. During laundering, Freshology™ releases trapped odors allowing them to be rinsed clean from the fabrics.



The Benefits



Cutting-edge performance

Meets GB/T 33610 and ISO 17299 standard for 4 key odorants



Heavy metal-free solution

More environmentally friendly technology that removes metal-based chemistries from the formulation



Non-ionic

Compatible with most textile auxiliaries



Patent pending

Novel odor capture technology from the industry leader



Nature-inspired

Cutting-edge odor control technology with ingredients inspired by nature*



Enhanced product features

Fabric hand-feel and improved wicking performance



Mill friendly

Easy incorporation into existing manufacturing processes



Pursuing Bluesign® & Oeko-Tex® certifications

As part of our ongoing commitment to sustainable textile manufacturing processes