



SILVERSHIELD® TECHNOLOGY

Who is Microban International?

Founded in 1984 by three biomedical engineers, Microban International, Ltd. is the global leader in built-in antimicrobial solutions.



Utilised by
800+
companies worldwide

Proudly displayed
on more than
1,000 products

Globally acknowledged as a consumer Trustmark, the Microban® brand is utilized by 800+ companies worldwide and is proudly displayed on more than 1,000 products in over 30 countries.

What is antimicrobial technology?

Antimicrobial technology is a solution that inhibits the growth of microorganisms such as bacteria, mold and mildew.

Microban® has a portfolio of over 25 approved organic and inorganic antimicrobial technologies. Depending on the manufacturing process and material application, these technologies are then formulated into specific additives that can be integrated seamlessly into a product.

How can we help?

Once you've made the decision to implement antimicrobial protection into your product line, Microban's product development team will work with you to formulate each aspect of the project. From initial concept to official product launch, your dedicated account manager will be by your side to deliver marketing support, sales training, regulatory assistance and technical guidance.

SilverShield®: effective antimicrobial protection

The world is filled with microorganisms that grow and proliferate on surfaces. Did you know that on an unprotected surface, bacteria can double in number every 20 minutes? These microorganisms can cause stains, malodor and have a negative impact on the durability of products.

Thankfully, there is a better way to keep products cleaner and fresher for longer with Microban® SilverShield® antimicrobial technology.

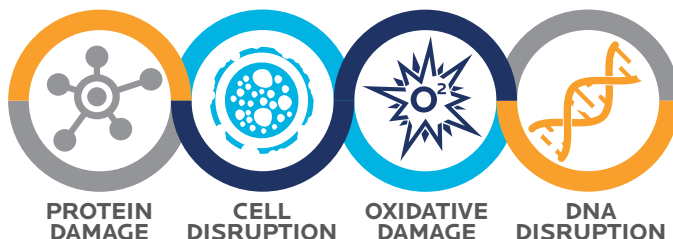
Technical Data – At a Glance

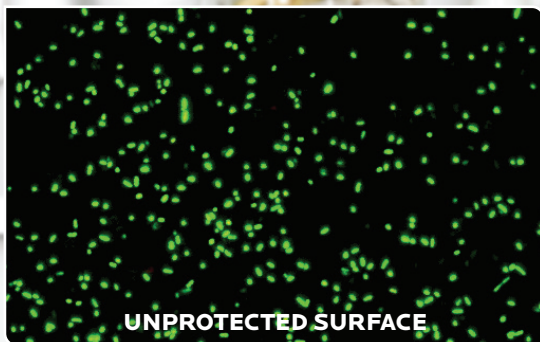
MICROBAN®

Antimicrobial Effect	Antibacterial
Active	Silver Ions
Food Contact	Registered Globally
Test Method	ISO 22196 (JIS Z2801)

How does it work?

Our proactive systems keep products cleaner and control odors by preventing microbial growth. Microban® antimicrobial technologies are built into a product during production to provide continuous 24/7 protection that does not wear off and remains effective even if an object is nicked, scratched, or abraded. SilverShield® disrupts the metabolism of bacteria by preventing conversion of nutrients into energy, which inhibits bacteria survival, reproduction and colonization. The additive is inert until it encounters an environment where bacteria can proliferate. Only then will it release tiny quantities of antimicrobial silver ions to inhibit bacterial growth.





24-hour time lapse: untreated surface vs. SilverShield® treated surface

Using confocal imaging, Microban® has captured the differences in bacterial growth on an unprotected surface versus a SilverShield® protected surface. On an untreated surface, the bacteria thrive and reproduce rapidly. On a SilverShield® treated surface, the bacteria struggle to survive and are reduced considerably.

The Benefits

EASY TO USE

Easily integrated into existing manufacturing processes with no disruption.



MUTIPLE APPLICATIONS

Can be incorporated into a wide range of materials for use in a variety of applications, including those that come in contact with food.



EXTENDS PRODUCT LIFETIME

Inhibits the growth of microorganisms that can lead to product deterioration.



ADDS VALUE

The Microban® brand is a Trustmark recognized by consumers and business-decision-makers alike.



REGULATORY REGISTRATIONS

Registered with U.S. Environmental Protection Agency (EPA) and EU Biocidal Products Regulation (BPR).



AVAILABLE AROUND THE WORLD

Our global footprint provides local capabilities and fulfillment, no matter where you are located.



Examples of SilverShield® applications

CONSUMER

- Kitchen Products
- Pet Products
- Electronics
- Personal Hygiene Products



COMMERCIAL

- Commercial Coatings
- Food Service Equipment
- HVAC Systems
- Construction/ Building Materials



HEALTHCARE

- Medical Carts
- Dental Trays
- Privacy Curtains
- Healthcare Transport



Get in touch

No matter your industry, the Microban® brand is your assurance of durable and effective antimicrobial protection that your customers will recognise and trust.

Microban International, Ltd.
11400 Vanstory Drive, Huntersville, NC 28078 USA
www.microban.com

* SilverShield® is not designed to replace a disinfectant, but rather complement disinfectants in the fight against bacteria.