

A close-up photograph of a person's hand and forearm. The person is wearing a tan, heavy-duty jacket with a black strap on the cuff. They are firmly grasping a bright blue vertical bar. The background is blurred, showing more of the blue bars, suggesting an industrial or gym setting.

DURABLE ANTIMICROBIAL PROTECTION FOR YOUR PRODUCT

MAKING EVERYDAY ANTIMICROBIAL
PROTECTION A REALITY



POLYGIENE[®]
PRODUCT PROTECTION

Muraspec
WALLCOVERINGS

POLYGIENE BIOMASTER™

WHAT IS IT?



Polygiene BioMaster is a silver ion antimicrobial technology, that proactively inhibits and disrupts the growth of bacteria and microbes at the molecular level.



Polygiene BioMaster is easily integrated into polymers, textiles, paper, paint, lacquers and coating at the point of manufacture. It then provides around the clock durable and effective antimicrobial protection for the lifetime of the treated product.



It makes **Polygiene BioMaster** ideal for any hygiene-critical locations or high-traffic touch points.

WHY DO WE NEED IT?

Bacteria are all around us. They are in us, too. Our bodies contain trillions of bacteria. Most bacteria are rendered harmless by the protective effects of our immune systems. And many perform beneficial functions. But several species of bacteria, such as Campylobacter, MRSA, E.coli, Legionella, Listeria, and Salmonella, can cause serious infectious diseases. Children, the elderly, and people with weakened immune systems are especially vulnerable to infection.

WHERE DO WE NEED IT?

Antimicrobial products are used in many environments, including hospitals, care homes, schools, gyms, and offices. Anywhere where large numbers of people gather and interact with shared surfaces can benefit from antimicrobial technology.

Independently tested in thousands of applications, **Polygiene BioMaster** is proven to inhibit the growth of harmful bacteria and prevent bacterial spread.

If your product could benefit from antimicrobial protection, **Polygiene BioMaster** is the answer. As well as an industry-leading product, we provide technical, regulatory, and marketing support to ensure your customers understand the benefits of **Polygiene BioMaster** protection.



HOW DOES POLYGIENE BIOMASTER WORK?



When bacteria come into contact with a **Polygiene BioMaster** - protected surface, the silver ions present in the antimicrobial additive prevent the bacteria from growing, producing energy, or replicating.



As a result, they die. **Polygiene BioMaster** antimicrobial protection is incredibly durable, long-lasting, and highly active. When added, it disperses across a surface and becomes an integral part of the product.

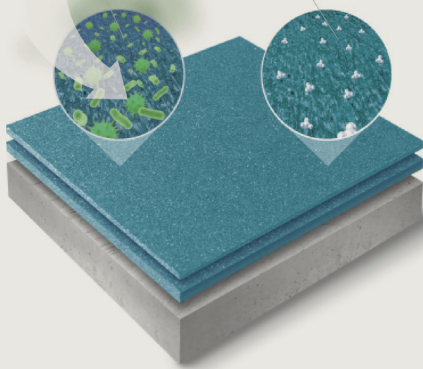
SILVER IS A NATURAL ANTIMICROBIAL

Polygiene BioMaster silver ion additive is inorganic. The active ingredient provides maximum antimicrobial surface protection for the product's entire lifetime.

HOW DOES IT WORK?

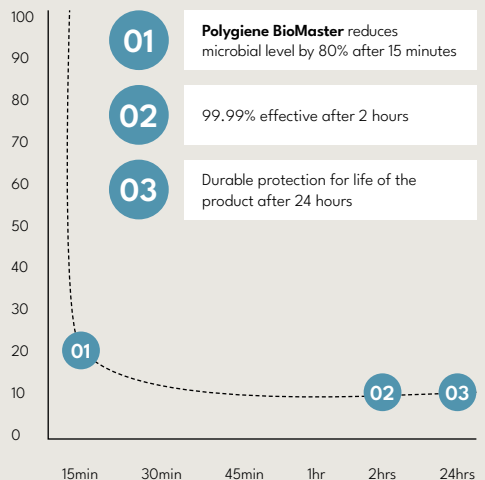
WITHOUT POLYGIENE BIOMASTER™
Microbes settle and multiply on surfaces, causing degradation

WITH POLYGIENE BIOMASTER™
Silver ions actively inhibits all microbes and protects the surface



© Polygiene

MICROBIAL REDUCTION TIMES BY POLYGIENE BIOMASTER



** Ask us about SARS COV 2 data"

** For illustrative purpose only, actual reduction rate varies depending on material and additional rate

VERSATILE AND LONG-LASTING PROTECTION FOR PLASTICS, PAPER, COATINGS AND TEXTILES

Our understanding of the role hygiene plays in keeping people, organizations, and societies safe and secure is growing at a rapid rate.

Products treated with antimicrobial technology in high touch points, high risk areas, public spaces, can form a crucial part to a holistic approach to improved hygiene, by inhibiting the growth of microbes reducing microbial loads in between cleaning regimes.

Polygiene BioMaster Antimicrobial Technology is easily incorporated into any plastic, textile, paper, paint or coating, making it an integral part of the finished product and a compelling benefit that adds real value and differentiates your brand.

PROTECTION FOR POLYMERS

At Polygiene, we have developed masterbatches and compounds for every type of polymer and every manufacturing process. **Polygiene BioMaster** doesn't affect the physical properties of plastic in any way and can even be used in clear grades.

We can supply masterbatch or compound samples, that incorporate **Polygiene BioMaster**, allowing you to test and validate the benefits.

PROTECTION FOR PAPER AND BOARD

By its very nature, paper is inherently difficult to clean, which makes it a perfect breeding ground for bacteria and a potential source of cross-contamination.

Polygiene BioMaster paper grade additive is unique and can be applied during manufacture or as a post-manufacture treatment to provide effective, lasting antimicrobial protection, reducing the build-up of bacteria on the surface during storage.

PROTECTION FOR COATINGS

Polygiene BioMaster is easily added to any water, solvent, oil, powder-based paint, coating, ink, or lacquer to inhibit the growth of microbes and is ideally suited to hygiene-critical, high-traffic environments.

PROTECTION FOR TEXTILES

Polygiene BioMaster can be added to any textile or fabric at any stage of production without affecting material characteristics. It provides durable and effective protection against both harmful and odor-causing bacteria.

Treated items can be washed less often and at a lower temperature, saving water and energy and increasing fabric durability. At the same time, **Polygiene BioMaster** ensures the material retains the antimicrobial benefit associated with much hotter wash cycles.

To confirm efficacy before production, we conduct exhaustive tests that simulate the actual usage of the article.



**DID YOU
KNOW?**

Polygiene BioMaster has been successfully tested on most common organisms in more than 2,000 applications.

OUR EXPERTISE IN ANTIMICROBIAL TECHNOLOGY

Rather than offering an off-the-shelf solution, we offer bespoke antimicrobial additives tailored to your specific needs. To achieve this, we discuss product requirements, taking factors such as performance criteria and how and where the product is manufactured and sold into account.

We guarantee product excellence by enforcing strict standards and meticulous quality control, supported by the specialist skills of our experts in microbiology, chemistry, and polymer science.

Our knowledge of antimicrobial additives and the regulatory support we provide is unrivaled within the industry. It ensures we can develop an antimicrobial solution for your product, including testing and marketing collateral, in as little as four weeks.



PRODUCT BENEFITS



Powerful antimicrobial action



Long-lasting, 24/7 protection for the life of the product

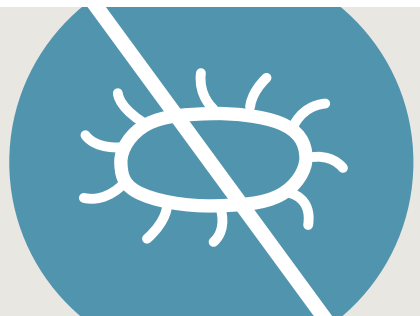


Safe to use in any environment with non-leaching action



Versatile enough for virtually any application or solution

BUILT-IN PROTECTION
FOR THE **LIFE OF A PRODUCT**



TESTED AND COMPLIANT

At Polygiene, we know **Polygiene BioMaster** is highly effective at reducing bacteria levels. But we want you to be confident in its ability to protect your products, too.

That's why we conduct antimicrobial testing to the latest ISO standards at leading microbiology laboratories. The **Polygiene BioMaster** regulatory service ensures your product complies with all the relevant legislation for biocidal products, including:

- Biocidal Products Regulation (BPR)
- Environmental Protection Agency (EPA)
- Food and Drug Administration (FDA)

We work closely with our customers to ensure they comply with the required regulations regarding the manufacture, importing, and marketing of products incorporating **Polygiene BioMaster**.

TRUSTED GLOBALLY BY MAJOR BRANDS

We export **Polygiene BioMaster** antimicrobial additives globally and our growth and outstanding international sales performance have been recognized with several awards, including a prestigious Board of Trade Award. We are also winners of the Queen's Award for Enterprise in International Trade and Product Innovation.

Polygiene BioMaster is the acknowledged leader in antimicrobial technology and the trusted partner of global brands. We select partners in our worldwide network of distributors for their knowledge of antimicrobial additives and local regulations. No matter where you are, our experts are there to help. These are some of the famous brands we have added value to.

ANTIMICROBIAL PRODUCT PROTECTION IN HEALTHCARE AND TRANSPORT



HEALTHCARE

Healthcare-associated infections acquired during hospital stays are one of the most common hospital care complications and a serious patient safety concern.

Regular cleaning regimes are valuable, but any contact point is only as clean as the last person to touch it.

Polygiene BioMaster provides a built-in second line of defense against bacterial cross-contamination.

Polygiene BioMaster is used widely in hospitals, dental surgeries, care homes, and GP practices around the world. It features in products ranging from beds, cubicle curtains, and nurse call systems to wall paints, flooring, pull cords, and case note folders.

PUBLIC TRANSPORT

With millions of passengers using trains and buses every day, it is no surprise that people are regularly exposed to potentially harmful bacteria on surfaces.

Exposure to germs and the risk of cross-infection increase whenever and wherever large numbers of people come together.

Polygiene BioMaster antimicrobial technology complements regular cleaning regimes by offering 24/7 product protection against harmful bacteria. It can be added to almost any surface in high-traffic, shared areas to make them cleaner and more hygienic.

ANTIMICROBIAL PRODUCT PROTECTION IN FOOD, CATERING AND MANUFACTURING

FOOD, CATERING AND HOSPITALITY

Good hygiene is important in our everyday lives. But it is critical in catering and hospitality. Illness caused by food-borne bacteria can be devastating for customers and businesses alike.

Polygiene BioMaster reduces surface contamination and improves hygiene throughout the food chain, from preparation and processing to packing and distribution. We have you covered at every stage, from farm to fork. Restaurants use **Polygiene BioMaster** antimicrobial technology in kitchen surfaces, appliances, flooring, wall paint, and even the coating on menus.

In the high street, companies use it to help reduce bacterial spread and prevent bacteria from transferring from packaging and reusable shopping bags.

INDUSTRIAL AND PROFESSIONAL/WATER

Controlling contamination is an essential aspect of all manufacturing processes. **Polygiene BioMaster** antimicrobial technology is used in clean rooms, critical areas, and controlled industrial environments around the world, serving businesses in industries as diverse as the biomedical, pharmaceutical, electronic, optical, automotive, aerospace, and packaging sectors.

Its is also widely used in water systems filtration at point of dispense, shower heads and taps.



ANTIMICROBIAL PRODUCT PROTECTION AT HOME, LIFESTYLE, SPORTS AND OUTDOOR



HOME AND PET

Home is where the heart is. It's also where the germs lurk. It is impossible to keep every surface clean all of the time, so let **Polygiene BioMaster** inhibit the growth of harmful bacteria around the clock.

It is easily introduced into almost any item found around the home and is used in everything from kitchen units and household appliances to meat thermometers and flooring.

SPORTS AND OUTDOOR/LIFESTYLE AND FASHION

Polygiene BioMaster also finds application in a wide range of leisure products, from gym wear and equestrian equipment to cruiser liner fixtures and fittings.

POLYGIENE GOES ONE STEP FURTHER WITH OUR MARKETING AND REGULATORY SUPPORT SERVICE



As a strategic partner, we help you take your product to market quickly and effectively. And, if you co-brand with us, you benefit from an extensive customer service package that includes:

- Marketing support
- Regulatory support
- No license fees

This support is provided free of charge as part of the co-branding customer service package. The **Polygiene®** team boasts extensive experience introducing antimicrobial products around the world. And we understand what is important to your customers and how to communicate the benefits of antimicrobial protection.

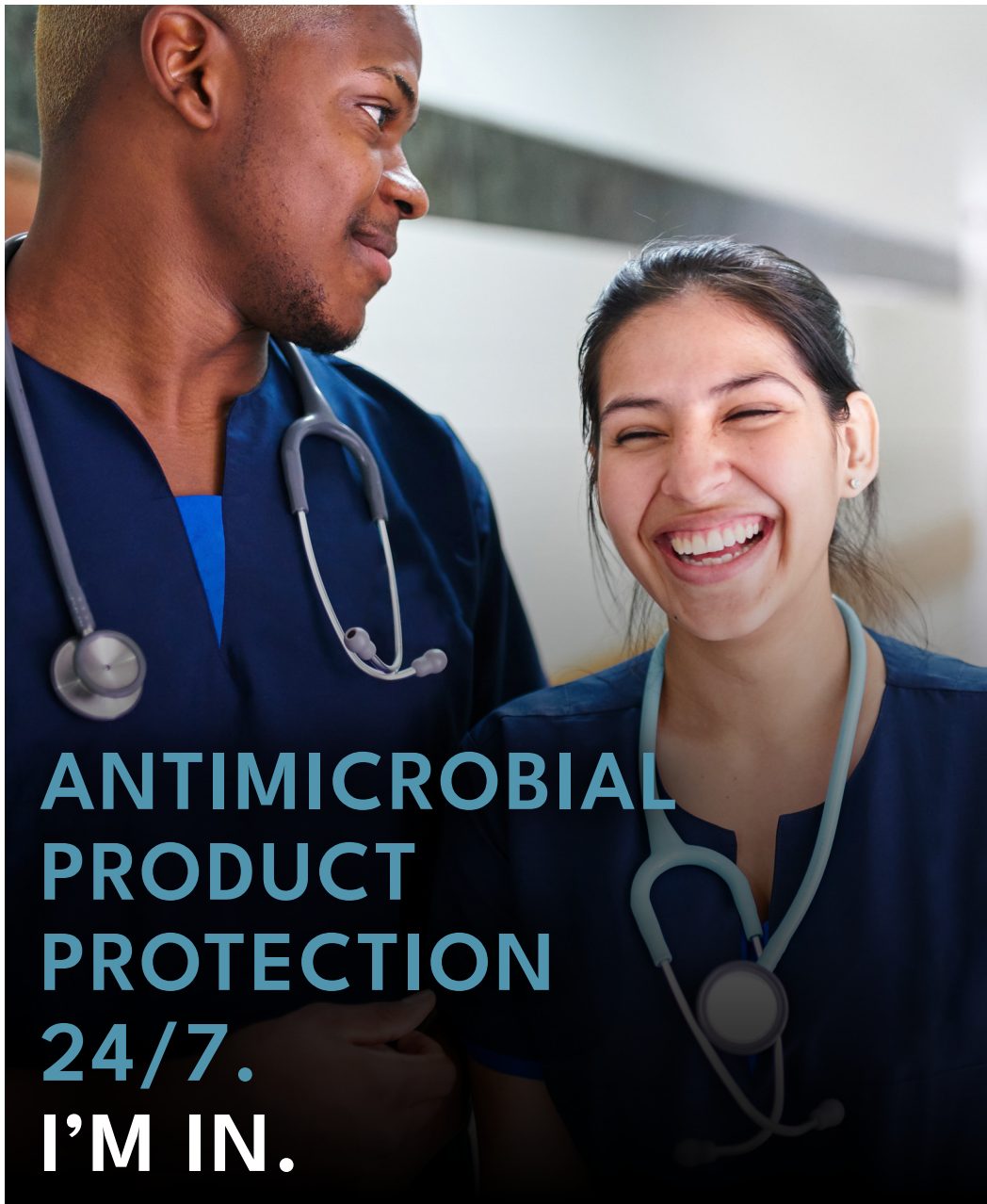
Whether you are looking for a product line extension, increased pricing leverage, or market share growth, co-branding with the trusted **Polygiene BioMaster Protected** symbol gives your product a clear competitive advantage.

We have invested heavily in raising awareness of the benefits of **Polygiene BioMaster** and demand for antimicrobial-protected products is growing.

Be part of the **Polygiene Freshness** and **Protection** movement.

To learn more about how we can help grow your business, contact the **Polygiene** team today.

Polygiene BioMaster protects the article in which it is incorporated. It is not intended to protect consumers against disease-causing microbes nor is it a replacement for cleaning.



**ANTIMICROBIAL
PRODUCT
PROTECTION
24/7.
I'M IN.**



POLYGIENE
PRODUCT PROTECTION
www.polygiene.com





POLYGIENE[®]
PRODUCT PROTECTION

www.polygiene.com