

# Optiguard Hygiene™

Optiguard Hygiene™ antimicrobial technology is an incredibly effective way to stop the growth of harmful bacteria in places where good hygiene is critical. It's effective against a wide range of germs from food poisoning causing E.coli and Salmonella to antibiotic resistant bacteria like MRSA and VRE.

Optiguard Hygiene™ is ideal for use in situations where good hygiene is critical, like hospitals, schools, public transport and kitchens. Potentially deadly bacteria can multiply quickly in these types of places and as such, there is a risk of contamination being spread from surfaces and equipment to humans. Whilst disinfectants can be instantly effective in removing bacteria, after a few hours the effect wears off and contamination can occur again. Optiguard Hygiene™ helps to reduce bacteria growing between cleans and reduce the risk of infectious bugs being spread.

Optiguard Hygiene™ will remain effective for many years due to its inherently low water solubility. The inherent biocidal properties means the coated surface can be cleaned effectively and is completely UV stable. It utilises silver-ion technology, which is a natural antibacterial which does not leach out, therefore, it's completely safe to use even with food and water.

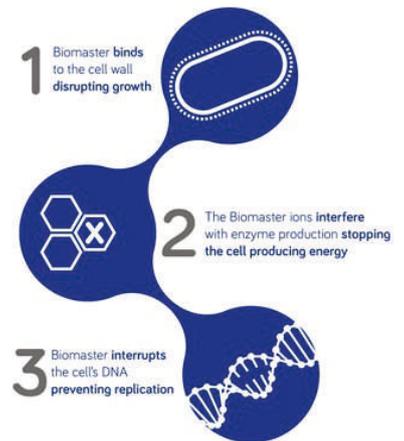
## How does Optiguard Hygiene™ work?



Optiguard Hygiene™ uses **Biomaster TD100** and has passed British Standard ISO 22196 tests for severe usage.

**Biomaster TD100** is an inorganic antimicrobial concentrate designed for controlling the growth of bacteria on solid surfaces.

As Biomaster uses 3 ways of stopping bacteria from growing it is far more powerful and effective than regular disinfectants and other antimicrobial agents.



## TECHNICAL DATA

**Biomaster utilises silver ion technology with a range of carriers. This provides a release of silver ions on demand, safely inhibiting bacterial growth. The slow release of the active silver ingredient give the products maximum long term activity. Biomaster antimicrobial additives can be processed at temperatures up to 600 degrees Celsius without losing their antimicrobial properties.**

### Testing procedure

All testing is undertaken independently by Industrial Microbiological Services Limited. The procedure is a quantitative test designed to assess the performance of antimicrobial properties. Submitted samples are challenged against stock cultures and incubated for 24 hours at 37°C according to ISO standards. TVC (Total Viable Count) of bacteria are then recorded and the percentage of reduction is calculated. Optiguard Hygiene™ has received a point 3 award from the NHS Infection Control Rapid Review Panel (Surface Coating Category).

### Biomaster efficacy

Biomaster has been tested to ISO 22196:2011 and is proven to reduce the growth of bacteria by up to 99.99%. Effective against common organisms such as:

- Campylobacter
- E.coli
- Listeria
- MRSA
- Pseudomonas
- Salmonella

### Regulatory

The active ingredient complies with the required legislation for biocides.

This can include:

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