

# Biomaster AT100 Spray

## Technical DataSheet



**Biomaster AT100** was developed to produce a silver ion based semi-porous surface spray treatment capable of providing a cost-effective method of reducing cross infection.

Biomaster AT100 provides a release of silver ions at a rate of 3 to 20ppb on demand which in turn safely inhibits microbial growth. The controlled release of the active silver ions ensures that the antimicrobial protection does not leach out.

Biomaster AT100 is supplied in pump-spray bottles, and should be sprayed in a uniform thin layer on surfaces to be treated, and be allowed to dry. Drying can be assisted by using a drying oven at 50°C to 60°C

The dry coating is not scratch-proof and care should be taken when handling/stacking/packing treated articles to ensure that the coating is not damaged.

### Physical properties

Appearance - aqueous dispersion

Particle size - < 2 µm

Particle solubility - essentially insoluble

### Recommended addition rates

Biomaster AT100 is recommended for use as supplied to provide antimicrobial protection.

### 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.

### Biomaster efficacy

Biomaster has been tested to ISO 22196:2011 against common organisms such as:

| Campylobacter

| E.coli

| Listeria

| MRSA

| Pseudomonas

| Salmonella

It is proven to reduce the growth of these bacteria by up to 99.99%.

### 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).

### General information

Biomaster only imparts antimicrobial properties and should not affect the basic colour or surface finish of any product in which it is used.

The active ingredient in Biomaster cannot leach or wash out and is designed to last for the lifetime of the product. Before using this product please ensure that you have the latest information.

For help or more information contact the Addmaster technical team - email [info@addmaster.co.uk](mailto:info@addmaster.co.uk).

### Storage and handling

Biomaster products are formulated for maximum stability in storage and in use.

However, materials containing silver exhibit varying degrees of light sensitivity and can cause some discolouration in the finished article. It is therefore incumbent upon the user of the Biomaster products to evaluate them fully under their normal conditions of use.

As with all chemicals, please refer to the Materials Data Handling Sheet prior to use.

This information is provided in good faith and every reasonable effort is made to ensure that it is accurate and up to date. Addmaster (UK) Ltd. shall not be liable for any damage arising, directly or indirectly, from the use of the information contained herein. It is issued on the condition that the user will determine the safety and suitability of this product for their purpose prior to use. Regulations are country-specific and local information should be sought before placing your product on the market.

  
**Biomaster**  
ANTIMICROBIAL ADDITIVES

PROTEZIONE ANTIMICROBICA PER MATERIE PLASTICHE, CARTA, TESSUTI E RIVESTIMENTI PROTETTIVI

