

## Aquastat® Antimicrobial Media

### The new standard in bacteria and mold protection



The control of bacteria and viruses has long been a primary concern in the treatment of potable and industrial waters worldwide. With increasingly sensitive process equipment and a growing awareness of the potential impact on health, the need to control biological growth in water is critical. Further, this need is now expanding into additional arenas, such as common household and specialty products such as medical devices, plastics and HVAC systems.

Despite the reliability and cost-effectiveness of chlorine and bromine, these types of chemical alternatives have several disadvantages, such as the formation of carcinogenic by-products, corrosiveness towards plumbing or other contact surfaces as well as safety hazards when handling. Other treatment alternatives frequently used can also be ineffective on common microbes and require constant monitoring when used.

To meet these challenges, we have transformed three years of concentrated research into a product with superior antimicrobial activity in an easy-to-apply form. The antimicrobial media is manufactured as a spherical or granular product and often custom-designed and formulated into specific devices or end uses for a wide range of applications such as:

#### Some example uses are:

- 】 HVAC systems for home, office, and confined areas
- 】 Humidification/dehumidification devices
- 】 Industrial air treatment
- 】 Surface coatings
- 】 Plastics and molded products
- 】 Fabrics
- 】 Medical devices
- 】 Drinking water storage
- 】 Pharmaceuticals
- 】 Dental water lines



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complete line of products.

The engineered functionality behind the Aquastat® material enables it to release trace amounts of our proprietary mineral-based antimicrobial into the water. By functioning in this fashion, the media acts as a time released capsule maintaining a constant level of the antimicrobial in the water to prevent bacteria growth. An additional feature of this product is that not only is the water treated to prevent bacteria growth; all surfaces that are in contact with the water are also treated to prevent the growth of biofilm and mold.

All this performance is achieved by simply placing the Aquastat® material in a suitable drop-in container as exhibited in our patented Humidisafe® device. Or the Aquastat® material may be placed into any suitable in-line filtration device.

## Benefits

- › Controls a broad spectrum of bacteria and viruses
- › Time release action allows continuous protection in the water and on water contact surfaces
- › Easy to apply in drop-in or flow-through device
- › US EPA registered product
- › Non toxic and safe for use with drinking water
- › Non corrosive on plumbing or sensitive components
- › Can be used in conjunction with chlorine to offer additional protection

## Properties

Matrix	Inorganic Metal/Metal Oxide Composite
Composition (by wt.)	
Active Ingredient	Proprietary mineral composite
Inert	Al <sub>2</sub> O <sub>3</sub> ~98.6% (± 0.25%)
Physical Form	Free-flowing powder (white or light green)
Particle Size Distribution	
Micron	4-6
Packaging (net weight)	250 lb fiber drums (others available)
Bulk Density (gms/cc)	29 lbs/ft <sup>3</sup>
pH	6.5 -7.5 (± 0.5)

