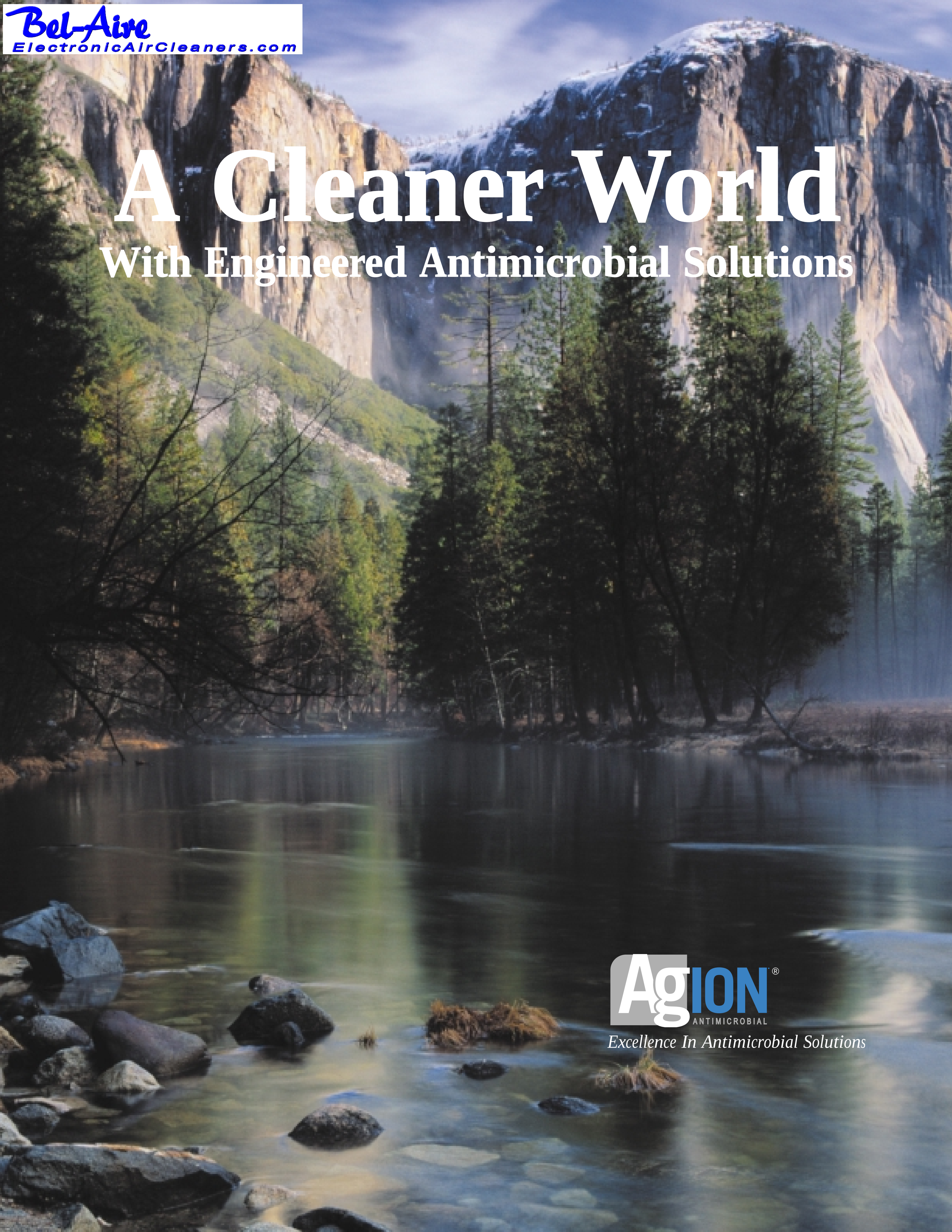
A Cleaner World

With Engineered Antimicrobial Solutions



AgION® ANTIMICROBIAL

Excellence In Antimicrobial Solutions

A Breakthrough In Antimicrobial Technology For Cleaner Living

Sparked by consumer demand for cleaner surroundings, from appliances and air conditioners, to food packaging and water filtration, the need for effective antimicrobials to control mold, mildew and bacteria has never been greater.

The closing of schools, homes and buildings due to mold contamination has become commonplace. The EPA has referred to mold as “one of the crises of the decade.”

Almost daily, new reports surface about microbial contamination that results in untold remediation and productivity costs, another indication that controlling bacteria and fungi is a problem that knows no bounds.

AgION® antimicrobials represent a breakthrough in antimicrobial technology. What makes them unique is as much about their chemistry as their application. Silver, a powerful antimicrobial metal ion, is the active ingredient. And versatility, a problem for organic biocides, is a key feature.

AgION antimicrobials are ideally suited for a wide range of applications in consumer, industrial and medical products. They can be found in: appliances; building products; food processing and packaging; heating, ventilation, air conditioning; medical devices; water filtration and delivery systems; and numerous additional applications. AgION antimicrobials have been successfully used in plastic films and molded parts, fibers and fabrics, and coatings for metals.

Their effectiveness, unsurpassed safety, EPA registration and FDA listing make AgION products a compelling choice for achieving cleaner surfaces.

The company behind AgION antimicrobials was formed in 1997. AgION Technologies, Inc. is headquartered in Wakefield, Massachusetts and AgION Technologies Europe is headquartered in Allschwil, Switzerland. With a modern pilot plant and analytical and microbiology laboratories in Wakefield, the company offers many services to customers, worldwide, including process development and optimization, biological testing and regulatory assistance.

The Attractiveness of AgION® Antimicrobial Compounds

AgION antimicrobials create a cleaner surface, wherever it may be.

- AgION antimicrobials have proven to be very effective in controlling bacteria, mold and mildew. Independent laboratory testing has confirmed the efficacy of actual applications in consumer and non-consumer products showing the compounds to be both long-lasting and very durable.

- AgION antimicrobial compounds are safe to use. Thorough testing has shown them to be less toxic than table salt and less irritating than talcum powder.

- AgION antimicrobial products offer versatility in application and ease of integration. They can be readily applied to a variety of polymers and metals.

- AgION antimicrobials enjoy broad regulatory approval. They are NSF and FDA-listed, as well as EPA-registered. They are also listed with the Cosmetic, Toiletry and Fragrance Association as a cosmetic preservative and have the standard provisional approval in Europe under the Biocidal Products Directive (BPD)

AgION®-treated kitchen surfaces in the AK Steel concept home.

Partnering Makes The Difference

The company behind AgION antimicrobials includes a dedicated staff of scientists, engineers and regulatory specialists. They work with customers from concept to implementation, developing an antimicrobial solution that meets specific efficacy, process and regulatory requirements. Partnering with AgION Technologies is what makes the difference between a tailor-made antimicrobial solution and a “one size fits all” standard product.

Where AgION® Antimicrobial Compounds Help To Create A Cleaner Living Area

Appliances

- Dishwashers
- Humidifiers
- Refrigerators
- Small appliances
- Washing machines

Building Products

- Coatings
- Insulation
- Partitions
- Security hardware

Food Processing and Packaging

- Conveyor systems
- Cutting surfaces
- Packaging films and foils
- Refrigeration equipment

Heating, Ventilation, Air Conditioning

- Air handlers
- Coils and fin stock
- Ductwork and vents
- Filtration media
- Refrigeration

Medical Devices

- Catheters
- Luers
- Surgical Trays

Water Filtration and Delivery Systems

- Bottles
- Dispensers and coolers
- Filters
- Ice machines
- Tubing and connectors

Additional Applications

- Ballpoint pens
- Brushes
- Credit cards
- Promotional products
- Textiles
- Touch screens

Upgrade Solutions

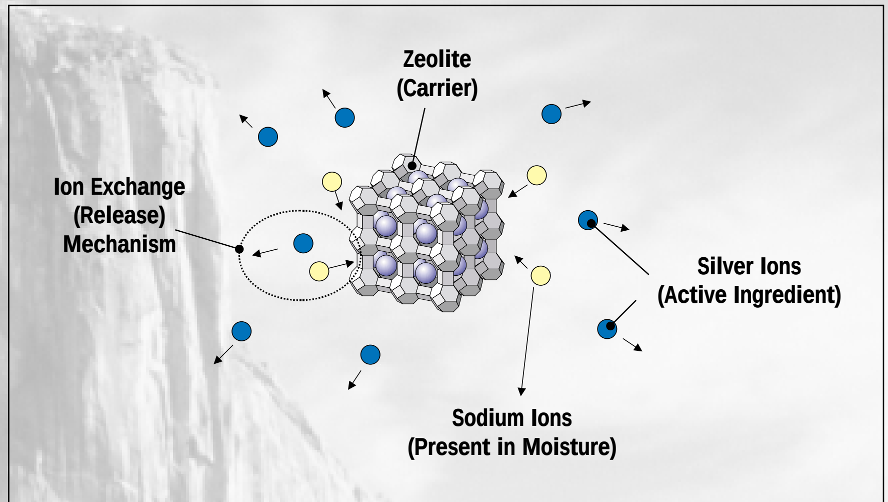
AgION antimicrobials can also be applied to installed equipment and facilities.

The AgION® Technology Behind The Performance

AgION antimicrobial is integrated into the final product without requiring a major process change. AgION compounds are compatible with a wide range of polymers and, unlike organic antimicrobials, they will not volatilize during processing. AgION antimicrobial products can be compounded into bulk polymers, incorporated into fibers during spinning, and mixed into a variety of coatings, paints and lacquers.

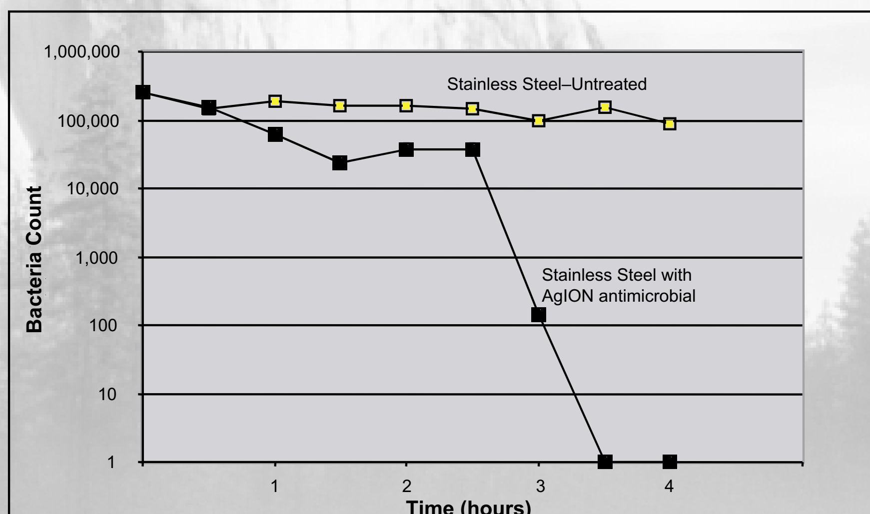
The cornerstone to the technology, silver, is a naturally occurring and effective antimicrobial agent in its ionic form. The delivery system is a zeolite carrier that allows a controlled and effective release of the silver ions, on demand, thus inhibiting the growth of bacteria, mold and fungus for long periods of time. This stable ion exchange process is non-reactive and allows the compound to be used in virtually every imaginable manufacturing process.

Zeolite Ion Exchange Mechanism



In many applications, the AgION antimicrobial compound has been shown to provide microbial efficacy within hours while maintaining optimal performance for years.

Comparison Of Microorganism Growth*



* Stainless steel substrates; direct inoculation method

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