

eco INTELLIGENT[®]

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INNOVATION

ECO INTELLIGENT[®] POST-CONSUMER
RECYCLED POLYESTER WITH AGION[®]

SUSTAINABLE FABRICS WITH SURFACE
ANTIMICROBIAL PROTECTION



VICTOR
GROUP

ECO INTELLIGENT® POST-CONSUMER RECYCLED POLYESTER WITH AGION®

The latest addition to the growing family
of Eco Intelligent® products.

WHAT IS IT?

Eco Intelligent® Post-Consumer Recycled Polyester is created from 100% recycled plastic PET bottles. These materials and the processes used reduce environmental impact by diverting waste from landfills, lowering air emissions and decreasing oil consumption.

Victor has now added a performance advantage to these sustainable textiles – by incorporating Agion® antimicrobial technology. Agion uses a naturally occurring silver ion-based antimicrobial to deliver continuous resistance to microbes, bacteria, mold, mildew and fungal contamination on the surface of the fabric.

This is the textile industry's first post-consumer recycled polyester with Agion technology built into the fiber. It's just one more example of Eco Intelligent® Innovation.



Eco Intelligent® Post-Consumer Recycled Polyester with Agion is Cradle to Cradle^{CM} Silver Certified as meeting established standards for human health, environmental health and recyclability.

A close-up photograph of a textile with a complex, multi-colored pattern. The pattern features large, stylized floral or abstract shapes in shades of blue, yellow, and green, set against a dark background. The texture of the fabric is visible, showing the weave and the way the colors are applied, possibly through embroidery or a specific dyeing process. The lighting is soft, highlighting the intricate details of the pattern.

A NEW APPROACH TO ECO INTELLIGENCE®

Products can only be as sustainable as the materials and processes used to create them. That's why Victor created Eco Intelligence® – a smarter way of thinking about textile manufacturing and its impact on the environment and human health*.

To put it simply, Eco Intelligence® is the guiding principle we use to navigate our path to sustainability. The products we develop in accordance with this principle are branded Eco Intelligent® – a designation that makes it easier for our customers to identify and choose products that meet their environmental objectives and specifications.

*Agion antimicrobial protection is limited to the treated article and does not protect a user against disease-causing bacteria.

HOW DOES IT WORK?

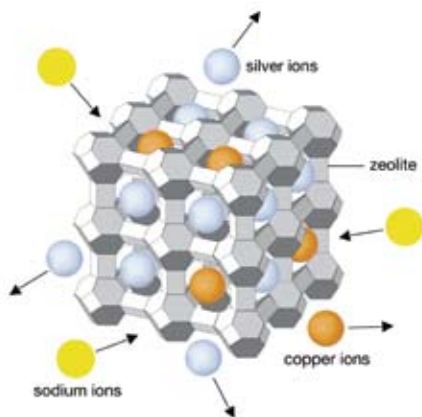
Agion utilizes a breakthrough ion-exchange technology that embeds a natural balance of silver and copper ions in a micron-sized “zeolite carrier.” (Copper is highly antifungal and the copper ions enhance the antimicrobial effect of the silver ions.) The zeolite carriers are then encapsulated into our Eco Intelligent® Post-Consumer Recycled Polyester fibers. The silver/copper ions are activated “on demand” in the presence of moisture – urine, blood, the touch of a hand, the settling of airborne bacteria, and other activating agents.

The silver ions combat microorganisms in three ways:

- Starve them (disrupt cell metabolism)
- Sterilize them (inhibit cell reproduction)
- Suffocate them (inhibit respiration)

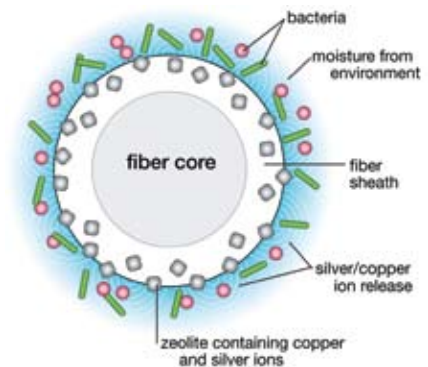
This “tri-modal” action makes Agion a broad-spectrum antimicrobial – proven effective against a wide range of bacteria, mold, mildew and fungi.

Unlike alternative antimicrobial approaches, Agion is built in to the “DNA” of the fabric to deliver long-lasting antimicrobial surface protection.



Zeolite Carrier

Silver and copper ions in the zeolite carrier are released to the fabric surface to inhibit microbes whenever moisture impacts the fabric.



Built-in Protection

Zeolite carriers are encapsulated into the fiber sheath to provide lifetime fabric protection.

WHY SILVER?

Silver is a naturally occurring element that was used as early as 4000 B.C. by the Ancient Egyptians. They lined their water vessels with silver to keep microbes from spoiling the water when they traveled on long journeys. Today, Agion silver ion technology is recognized as a more sustainable alternative to synthetic chemicals that have typically been used to fight microbes. It is approved for food and water contact, cosmetics, and even “in-body” devices like catheters. Agion is registered for a broad range of uses with the EPA, FDA, USDA, European FSA and European BPD.

It is important to note that Agion uses ionic silver, not metallic silver. Silver ion technology does not match the chemical or biological profile of commonly cited “toxic metals.” In fact, when used as directed, Agion is less toxic than table salt and less irritating than talcum powder. Also, Agion does not “leach” off the fabric surface into the surrounding environment. It is inherent to the fabric and is activated only when a microbe is encountered.

HOW DOES IT PERFORM?

Eco Intelligent® Post-Consumer Recycled Polyester with Agion combines sustainable and antimicrobial attributes with exceptional aesthetics, cleanability and durability:

- This innovative fiber is yarn dyed, not solution dyed, so it allows greater manufacturing flexibility and a near-infinite color palette.
- A new dyeing technology makes these package-dyed fibers more colorfast and resistant to bleach/chlorine. Fabrics made with this fiber are cleanable with a 20% diluted solution of household bleach (one part bleach, four parts water).*
- Fabrics made with this fiber have been tested to deliver a minimum of 200 hours lightfastness, abrasion resistance up to 100,000 double rubs, and excellent brush pill performance.
- Fabrics can be treated with water and stain-repellent finishes.

All of these factors make Eco Intelligent® Post-Consumer Recycled Polyester with Agion a natural choice for healthcare, hospitality, education, office and other high-use environments.

*Since there is no industry-standard test for bleach resistance, and post-processing could influence results, it is recommended that customers test individual fabrics with the 20% bleach solution. Be sure to rinse fabrics well after cleaning with a bleach solution to prevent fading.

WHAT DO I NEED TO REMEMBER?

Eco Intelligent® Post-Consumer Recycled Polyester with Agion is:

- A complete fabric solution for healthcare, hospitality and other high-use applications because it protects textile surfaces from mold, mildew and other destructive microbes.
- Engineered to deliver continuous surface protection.
- A sustainable choice that is Cradle to Cradle^{CM} Silver Certified.
- Designed and manufactured to meet Victor's stringent criteria for performance and aesthetics.
- Cleanable with a diluted bleach solution.
- Made from materials collected and recycled in North America.



For more information visit www.victorgroup.com



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Fosshield®, a registered trademark of Foss® Manufacturing Company, LLC, is the premier fiber technology that safely and naturally inhibits the growth of destructive and odor-causing bacteria, mold, and mildew using a unique blend of silver and copper ions. Agion® is a registered trademark of Agion Technologies, Inc. Cradle to Cradle^{CM} Certified is a certification mark of MBDC.

Printed on 100% pcw recycled paper manufactured with renewable Green Energy, using soy-based ink.