



Applied Silver is a company dedicated to using the power of silver to develop commercial applications for a cleaner, healthier world.

Applied Silver provides solutions to mitigate the rising risk from contaminated soft surfaces to help maintain the cleanest possible environment. The Silicon Valley based team of nationally acclaimed engineers, scientists and business leaders pioneered a breakthrough technology called SilvaClean® – the new standard for textile care that is patented, EPA-approved, and eco-friendly.

SilvaClean is a transformative antimicrobial textile treatment and the first ever residual antimicrobial laundry additive for reducing post-laundry contamination. As a unique, inexpensive intervention for soft surfaces, SilvaClean textile treatment can be recommended as a helpful addition to hospitals and sports infection control programs. SilvaClean treatment augments existing laundry processes with active antimicrobial properties effective anytime a microbe touches the textile: in storage, during handling and in use.

In a world filled with soft surfaces (textiles) the application possibilities of SilvaClean technology are limitless. Virtually any soft surface can be made cleaner and more hygienic – and can stay that way for longer – because of SilvaClean's residual antimicrobial capabilities.

The problem

More than 45 published articles demonstrate that:

- Linens harbor bacteria, mildew and mold for months – prior to, during and after use.
- Contaminated linens have been shown to spread bacteria, mold and mildew throughout the hospital environment.
- Infection control practices are expensive to implement.

The SilvaClean solution

- Inexpensive addition to infection control.
- SilvaClean® remaining in linens will reduce levels of *Staphylococcus aureus*, *Candida albicans*, *Klebsiella pneumoniae*, Vancomycin-resistant *Enterococcus faecalis*, Extended-spectrum beta-lactamase positive *Escherichia coli*, *Acinetobacter baumannii* Methicillin-Resistant *Staphylococcus aureus*.
- Works on all existing textile inventory. Automated, passive intervention that does not require a change to existing linen management workflows



Leading hospitals now use SilvaClean® as part of their infection control program and provide a new standard for soft textile care

As part of a diligent infection control program, experts recommend that a hospital should seek to reduce or eliminate exposure to pathogens to the greatest extent practical. One practical, inexpensive way to aid in this effort is to use SilvaClean.

SilvaClean is an antimicrobial laundry additive that provides residual post-laundry activity when textiles are in use. SilvaClean treatment augments existing laundry processes with active antimicrobial properties effective anytime a microbe touches the textile: in storage, during handling and in use.

SilvaClean protects fabrics from bacteria, mold and mildew and fabrics. When linens are being used, SilvaClean® remaining in linens will reduce levels of *S. aureus* and *C. albicans* by 99.9% after 6 hours of contact; *K. pneumoniae*, Vancomycin resistant *Enterococcus faecalis*, Extended-spectrum beta-lactamase positive *E. coli*, and *A. baumannii* by 99.9% after 3 hours of contact; and Methicillin-Resistant *S. aureus* by 99.9% after 9 hours of contact.

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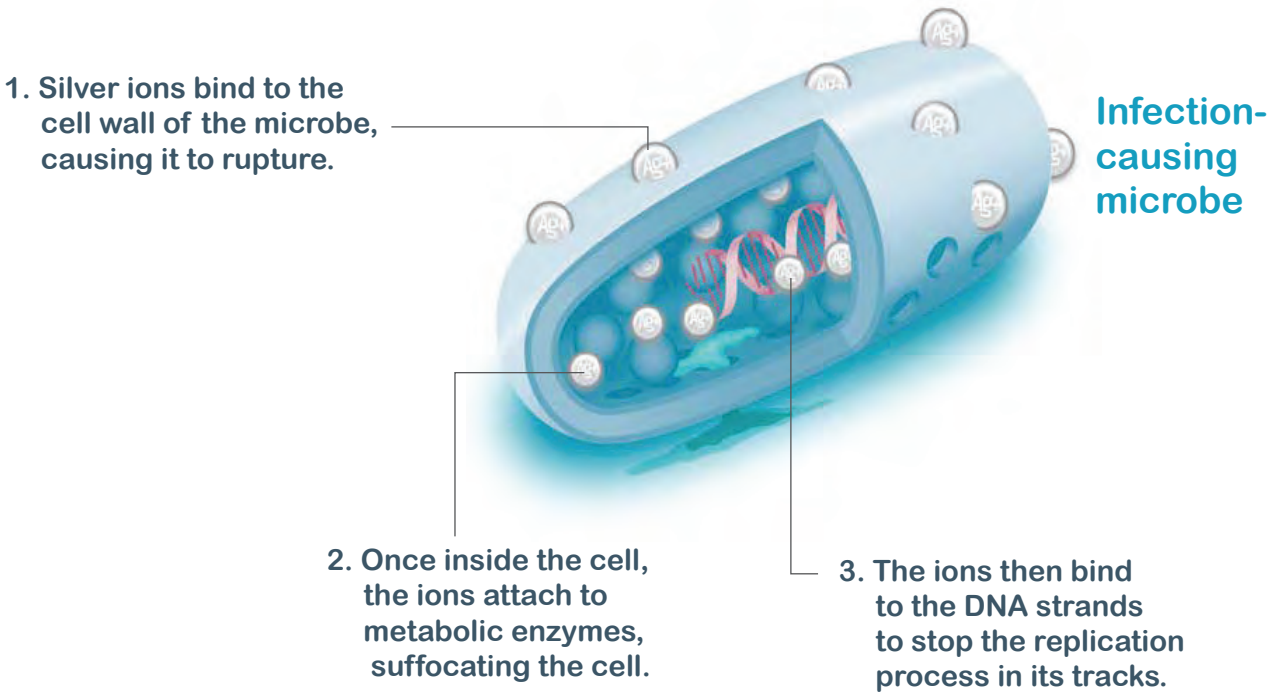
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The simple science behind silver ion technology.

Follow the process below to see how SilvaClean® seeks out and attacks micro-organisms on contact



SILVACLEAN® IS EPA APPROVED TO REDUCE POST-LAUNDRY CONTAMINATION

Demonstrated residual activity with 99.9% kill against major pathogens

Staphylococcus aureus
Klebsiella pneumoniae
VRE
ESBL-positive *Escherichia coli*

MRSA
Candida albicans
Acinetobacter baumannii

SilvaClean® also is effective in inhibiting the growth of stain- and odor-causing bacteria and fungi (mold and mildew) in products to which it is applied.

To learn more, contact us at

sales@appliedsilver.com
(888) 939 4747
www.appliedsilver.com



Wash In
Infection Control

Antimicrobial Textile
Laundry Treatment



Keep What's Closest Cleanenst

A COSTLY PROBLEM

THE ATHLETE ENVIRONMENT IS CONDUCTIVE TO INFECTIONS. STAPH AND MRSA ARE OCCUPATIONAL HAZARDS. SPORTING TEXTILES TRANSMIT PATHOGENS.

By the Numbers The risk is everywhere

40H

Avg. weekly no.
of hours spent
by an athlete in gear

10X

The chances of football
players carrying MRSA
compared to general public

50K

Minimum spend to
treat a MRSA
infection

INFECTIONS IMPACT Performance, Brand, Financial

A CUTTING-EDGE SOLUTION

SILVACLEAN® TRANSFORMS EVERYDAY CLOTHING USED IN SPORTS INTO GERM-KILLERS, INFECTION FIGHTERS AND HEALTH PROTECTORS

SilvaClean® infuses pure silver ions into fabrics during the laundry rinse cycle where they bond with fabrics to kill and keep killing pathogens, mold and mildew while reducing odor and static. This new standard of textile care leaves fabrics with lasting pathogen and germ-killing even after laundering (e.g. in use, storage and handling) while improving the environmental hygiene.



Antimicrobial

Kills pathogens and
inhibits growth of bacteria
mold and mildew



Water-based, anti-odor, anti-static

Creates no perceptible
difference in the look and
feel of your textiles



Cost-effective

Treats all existing textiles,
seamlessly integrates
into existing laundry workflow

THE SMART SILVACLEAN® SYSTEM



The SilvaClean® System is a dispensing device enabled by an Internet of Things (IoT) that doses SilvaClean® chemistry onto textiles during the laundry rinse cycle



SILVACLEAN® IONIC
SILVER DISPENSING
MACHINE



24/7 CLOUD
MONITORING
FOR QUALITY
ASSURANCE



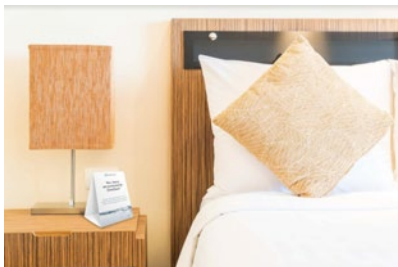
CONNECTS TO
ANY LAUNDRY
SYSTEM



TRANSFORMED
ACTIVE
ANTIMICROBIAL
GEAR



Applied Silver works with partners to develop custom marketing programs and materials to highlight industry leadership.



Custom program and materials may include:

- Joint press release announcement
- Email blasts and mailers
- Admit packet information
- Brochures for the end user including patients, athletes and athletes.
- Tent cards for the bedside or locker room
- Digital ads and signage
- Printed posters and informational flyers

CURTAINS HAVE BEEN
SHOWN TO HARBOR
MICROORGANISMS³

60% OF HOSPITAL
UNIFORMS ARE
CONTAMINATED¹

CLEAN LINENS BECOME
CONTAMINATED POST
LAUNDERING²

Reduce Post-Laundry Contamination with SilvaClean® Antimicrobial Laundry Additive

SilvaClean is a transformative antimicrobial textile treatment and the first ever residual antimicrobial laundry additive for reducing post-laundry contamination. As a unique, inexpensive intervention for soft surfaces, SilvaClean textile treatment can be recommended as a helpful addition to hospitals and sports infection control programs. SilvaClean treatment augments existing laundry processes with active antimicrobial properties effective anytime a microbe touches the textile: in storage, during handling and in use.

The problem

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Residual protection

Current laundering processes are only designed to clean soil and contamination on textiles at the point of laundering. When linens are being used, SilvaClean® remaining in linens will reduce levels of *S. aureus* and *C. albicans* by 99.9% after 6 hours of contact; *K. pneumoniae*, Vancomycin resistant *Enterococcus faecalis*, Extended-spectrum beta-lactamase positive *E. coli*, and *A. baumannii* by 99.9% after 3 hours of contact; and Methicillin-Resistant *S. aureus* by 99.9% after 9 hours of contact.

1. Nursing and physician attire as possible source of nosocomial infections, Wiener-Well, Yonit et al., American Journal of Infection Control, Volume 39. 2. Microbiological contamination of bed linen and staff uniforms in a hospital, A. Pinon, J. Gachet, V. Alexandre, S. Decherf and M. Vialette, Advances in Microbiology, Vol. 3, 2013. 3. Trillis F., 3rd, Eckstein E., Budavich R., Pultz M., Donskey C. (2008) Contamination of hospital curtains with healthcare-associated pathogens. Infect Control Hosp Epidemiol 29: 1074–1076.

What is SilvaClean?

- A water-based ionic silver residual laundry additive for reducing post-laundry contamination
- Invisible and odorless, creating no perceptible difference in the look or feel of textiles
- Effective for use on a wide range of textiles
- EPA-approved and patented
- A helpful addition to Infection Control programs

Innovative hospitals using SilvaClean may see:

- ✓ Cost savings
- ✓ Aids infection control
- ✓ Improved patient experience
- ✓ Reduced waste
- ✓ Improved HCAHPS scores
- ✓ Industry leadership

Proven to protect against post-laundry contamination

Many surfaces in the patient environment are contaminated with bacteria, mold, and mildew

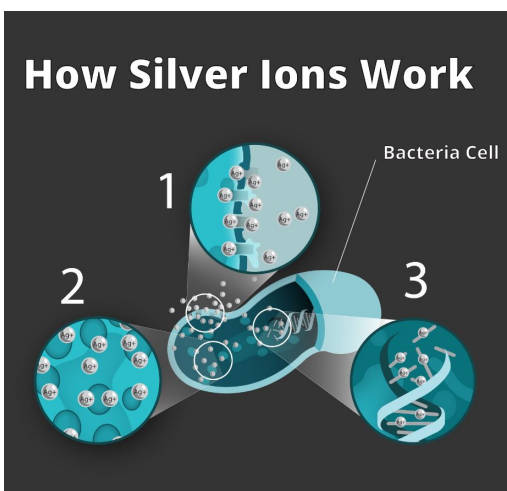
- Linens harbor bacteria, mildew and mold for months – prior to, during and after patient use
- Contaminated linens have been shown to contaminate the hands of Healthcare Workers
- Contaminated sheets are proven to spread microbes all throughout the hospital environment

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How does it work?

SilvaClean uses positively charged silver ions – the most effective form of silver – to create an antimicrobial effect.

The result? SilvaClean enables highly effective antimicrobial textiles to reduce the overall bioburden to protect the patient environment.



1. Silver ions bind to surface proteins in bacterial cell wall causing it to rupture.

2. Once inside the cell, silver ions attach to metabolic enzymes, suffocating the cell.

3. Silver ions bind to the DNA and RNA strands, preventing cell replication

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Call today to implement SilvaClean as part of your Infection Control strategy

QUICK FACTS

- Founded: 2012
- Headquarters: Silicon Valley, CA

INNOVATION

- Industrial silver treatment process, hardware, and consumer products in development

REGULATORY

- EPA registered since July 2014
- First ever residual antimicrobial laundry additive for reducing post-laundry contamination.

APPLICATIONS

- Healthcare
- Sports

FUTURE MARKETS

- Hospitality
- Consumer Goods

"Medical textiles pose a unique cleanliness problem that requires an equally unique solution."

*- Dr John Openshaw, M.D.
Stanford Medicine Department
of Infectious Diseases*

Mission

Applied Silver is a company dedicated to using the power of silver to develop commercial applications for a cleaner, healthier world.

What we do

Applied Silver is the leading provider of innovative solutions using silver. The company pioneered SilvaClean® – the new standard for textile care that is patented and EPA-approved.

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The Challenge

Textiles, when contaminated, are implicated in infections. As part of a diligent infection control program, experts recommend that a hospital should seek to reduce or eliminate exposure to pathogens to the greatest extent practical.

The SilvaClean® solution

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