



**GTECHCLEAN**

*Complete Germ Protection*



# GTECH CLEAN

Bacteria, mold, mildew and fungi can be discovered in every environment and are part of normal everyday life. Even in the cleanest environments, many kinds of microbes will begin to multiply on surfaces and sometimes reach harmful levels. If these contaminated surfaces are touched by individuals or contact everyday products, the transfer of microbes begins, resulting in cross-contamination. Pathogenic bacteria, such as MRSA, STAPH and E.Coli can be spread via cross-contamination, which can lead to infection and illness in humans and animals.

Bacteria, mold, mildew and fungi can also build up on products, making them unclean, unhygienic, or discolored. Our bio-static antimicrobial additive applications provide *durable* surface protection, continuously working 24/7, to inhibit the growth of microbes which can cause sickness, stains, odors or declination of products.

# Clean & Green.

## How GTech works

The active ingredient of the GTech antimicrobial is an organo-functional silane technology. It physically disrupts or “disembowels” the target organism’s cell membrane on contact. Our product molecularly bonds to a treated substrate, thus making the entire material itself antimicrobial. This means that the organism does not metabolize the active and become resistant. Through extensive studies, this colorless, odorless, and non-leaching technology was found to be safe and effective against a broad spectrum of virus, fungi, bacteria, algae, and yeast.

## Bio-static antimicrobial surface protection

GTech is a bio-static antimicrobial additive that can be impregnated into or applied to the product’s surface, providing elemental antimicrobial protection. This protection will not wash off or wear away, giving it durable antimicrobial product surface protection for the useful life of the product.

## GTech antimicrobial is green

The GTech antimicrobial additive can be incorporated in a variety of materials, including powder coating, gel coats, latex paints, polymers, fabrics, paper products, and wood. GTech can also be applied to multiple areas such as: kitchen & bath, indoor/outdoor surfaces, plastic, stone and metal surfaces, automotive surfaces, footwear, pet odor areas, laundry, and carpet. The antimicrobial protection is non-leaching and environmentally friendly.

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Our product molecularly bonds to a treated substrate, thus making the entire material itself antimicrobial.

This protection will not wash off or wear away, giving it permanent anti-microbial surface protection for the useful life of the product.

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# Proven Technology.

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GTech antimicrobial has been used safely and effectively in all areas from construction to plastics as well as hospital applications.

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## Effectiveness

GTech Technology is based on a unique antimicrobial technology which effectively controls bacteria, fungi, algae and yeasts on a wide variety of treated articles and substrates. The base active is registered with the U.S. Environmental Protection Agency.

The antimicrobial has been used safely and effectively in all areas from construction to plastics as well as in hospital applications. The information on the following page has been prepared in response to numerous requests for a list of microorganisms against which the technology is effective. They were selected to provide a test spectrum which is representative of all significant types and varieties of microorganisms.

This data is provided solely to assist you in understanding the capabilities of the base technology and is not a warranty. Laboratory testing is performed in a controlled environment and may or may not be representative of real world conditions. Effectiveness against an organism should not be interpreted as eliminating, controlling, minimizing or otherwise affecting health conditions which may be associated with specific organisms.

# Safe & Effective.

## Fungi

Aerobasidium pullulans  
Anabaena cylindrica B-1446-1C  
Cladosporium herbarum  
Fusarium nigrum  
Fusarium solani  
Gliocladium roseum  
Gonium sp. LB 9c  
Oospora lactis  
Oscillatoria borneti LB143  
Penicillium citrinum  
Penicillium elegans  
Penicillium funiculosum  
Penicillium humicola  
Penicillium notatum  
Penicillium variabile  
Schenedesmus quadricauda  
Stachybotrys atra

## Algae

Chlorella vulgaris  
Pleurococcus sp. LB11  
Saccharomyces cerevisiae  
Selenastrum gracile B-325  
Volvox sp. LB 9

## Viruses

Herpes simplex  
Poliovirus type 2

## Bacteria

Acinetobacter calcoaceticus  
Aspergillus flavus  
Aspergillus fumigatus  
Aspergillus niger  
Aspergillus terreus  
Aspergillus versicolor  
Bacillus cereus  
Bacillus subtilis  
Brucella abortus  
Brucella cania  
Brucella suis  
Chaetomium globusum  
Citrobacter diversus  
Clostridium perfringens  
Corynebacterium bovis  
Enterobacter agglomerans  
Escherichia coli  
Escherichia coli ATCC 23266  
Haemophilus influenzae  
Haemophilus suis  
Klebsiella pneumoniae ATCC 4352  
Lactobacillus casei

Leuconostoc lactis  
Listeria monocytogenes  
Micrococcus sp.  
Mucor sp.  
Mycobacterium smegmatis  
Mycobacterium tuberculosis  
Penicillium albicans  
Penicillium chrysogenum  
Propionibacterium acnes  
Proteus mirabilis  
Proteus vulgaris  
Pseudomonas aeruginosa  
Pseudomonas aeruginosa PDR-10  
Pseudomonas cepacia  
Pseudomonas fluorescens  
Rhizopus nigricans  
Salmonella choleraesuis  
Salmonella typhosa  
Staphylococcus aureus  
(non-pigmented)  
Staphylococcus aureus (pigmented)  
Staphylococcus epidermidis  
Streptococcus faecalis  
Streptococcus mutans  
Trichoderma flavus  
Tricophyton interdigitalie  
Tricophyton mentagrophytes  
Xanthomonas campestris

# Choose the best.

Making choices about which antimicrobial technology to use for your products is now easy. The words “bound,” “embedded,” and “contained” are much different than the word “chemically bound.” Understanding the facts about modes of action, safety in handling, and durability before choosing your antimicrobial is important. With GTech Technology we are able to make the antimicrobial protection permanent or semi-permanent.

	<b>GTech Silane-based</b>	<b>Silver-based</b>	<b>Triclosan-based</b>
<b>Mode of action</b>	Physically ruptures cell membrane	Releases ionic free radicals that react with cell DNA and disrupt critical life processes in the cell.	Releases bischlorinated phenol (PCB) for consumption or cellular absorption, causing lethal mutations in the cell.
<b>Durability</b>	Permanent	Embedded in or on fiber binder or coating.	Embedded in or on fiber binder or coating.
<b>Cost</b>	Economical	Expensive	Moderate
<b>Adaptive organisms</b>	Does not promote adaptive organisms	Can create adaptive zones.	Can create adaptive zones.
<b>In-plant safety/handling</b>	Mild eye irritation	Harmful if inhaled, harmful if absorbed through skin, moderate eye irritation.	Moderate eye irritation, harmful if absorbed through skin, avoid contact with skin, eyes, or clothing. Do not breathe dust.

# Simply, the best.

GTech is the only chemical bound, non-leaching additive that provides unmatched safety and performance, at a competitive price. Our product tested at 0.25% by standardized test methods significantly out-performs competitive silver products at 1%. GTech has a p-factor that rivals all standards in any study. In short, GTech active ingredient is EPA registered, United States Department of Defense reviewed, tested by independent laboratories, and is effective against a broad range of microbes.

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# To Learn More

Contact us: **866-483-2400**