

Being true to the faith that patients put in you is non-negotiable.

Medical Units need to demonstrate inviolable efficiency and assurance in every moment of their functioning. No place for surprises there! They need to be on top of it. 'Predictably' so.



Nearly 27% of discharged patients carry mild to high healthcare associated infections.

Healthcare-Associated Infections (HAI), Healthcare-Associated Pneumonia (HAP), Ventilator-Associated Pneumonia (VAP) and diseases like Sepsis, Meningitis, Endocarditis, Osteomyelitis, Peritonitis, and ARDs can be promulgated by toxic chemical disinfectants, multiple drug-resistant bacteria, and inadequate management of hygiene and sanitation at hospitals and other medical setups.

A medical utility needs a comprehensive decontamination of the entire environment --- Space & Internal Climate. From Operation Theaters, Immerse Medical Devices, Surgical Apparatus, Laundry, Bed & Pillow Linen, Pathological Consumables, Catheters, to Concierges, Floors, Doorknobs, and Tabletops --- they all need to adhere to a norm of safety against harmful microbes like bacteria, viruses, fungi, and spores. 'Climate Disinfection' includes fortification against external contaminants entering the premises and disinfection of the air.

It is gainsaying that the performance of your medical utility is directly proportional to the performance of its decontamination protocols.



Presenting,

ARGËSIL

ARGËSIL is the outcome of extensive research in the field of nanomaterial science. It combines a wonder chemical of the millennium, HYDROGEN PEROXIDE, with SILVER in nanoparticle size, ~10nm. The Silver Nanoparticles stabilize the Peroxide and enhance its anti-microbial properties -- even at lower concentrations. That makes the ARGËSIL disinfectant very effective across diverse applications in medical units. It kills bacteria, viruses, fungi, disease-causing spores, and microorganisms, instantaneously. What's more, it continues to work for much longer than ordinary micro-biocides, thereby minimizing the precious time that's lost to downtimes.

It delivers unfailingly, comprehensively, and consistently. It's...

"Delightfully Predictable!"

Nanotechnology based Broad-Spectrum Disinfectant

- Broad-Spectrum & kills up to 99.999%
 Harmful Bacteria (as per EN 1276). Highly effective on Viruses, Fungi, & Multiple
 Drug Resistant Bacteria & Spores
- Non-Toxic & without Chemical Residue
- Safe for Children, Infants, & the Elderly
- Pet-Friendly
- 100% Eco-Friendly
- 100 % Biodegradable -- it decomposes to Water & Oxygen post use
- Alcohol-Free
- Versatile in use on Surfaces, as a Fumigant, and inside Hard-To-Reach Spaces



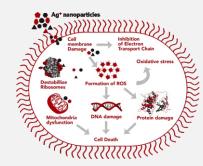
ARGËSIL

CAUSE FOR CONCERN



IT HAS BEEN OBSERVED THAT DISCHARGED **PATIENTS CARRY MILD TO HIGH HEALTHCARE ASSOCIATED INFECTIONS.**

MECHANISM OF KILLING



Silver Nanoparticles penetrate and cause structural damage to the cell membranes. Their positively charged ions create free radicals that effect the instantaneous death of the cells.

SCIENCE

Silver Nano provides continuous killing; stops replication of microbes.



Colorless & Odorless:

Safe for Infants, Children, the Elderly, & Pets.

Alcohol-free & free from Chlorides, Nitrates, Aldehydes, Acids, Ammonia, & Phenols.



SOLVES THE PROBLEM, WITHOUT ITSELF BECOMING A PART OF IT!

APPLICATION



- Surface Disinfection
- Aerial Fumigation
- Sterilization of Medical Devices & Surgical Instruments
- Laundry
- Air-Handling Filters, PPEs, etc.
- Disinfects Bio-Waste before disposal

SENSIBILITY



It decomposes into **oxygen** and water, making it environmentally friendly. In the times of climate change, ARGËSIL makes perfect sense.



Kills up to 99.999% bacteria in just 5 minutes







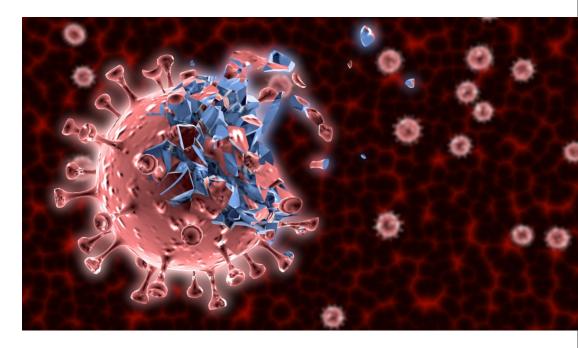
'Mechanism of killing' explained.

Silver Nanoparticles anchor to the bacterial cell wall and penetrate it, causing structural damage to the cell membrane and bringing about the cell's death. On the other hand, the formation of free radicals -- thanks to the positively charged ions from Silver Nanoparticles -- also causes the extermination of the cell. In comparison to other salts, Silver Nanoparticles cover larger surface areas. That leads to better contact with the microorganisms and comprehensive disinfection of spaces.

Hydrogen Peroxide is a widely used antimicrobial chemical. It is used in both, liquid and gas forms, for preservative, disinfection, and sterilization applications. Its advantages include its potent and broad-spectrum antimicrobial activity, flexibility in use, and a better safety profile in comparison to other micro-biocides. It is effective against all forms of microorganisms --- including dormant forms with known high resistance, viz. bacterial spores and protozoal cysts, and infectious proteins such as prions.

Hydrogen Peroxide is highly toxic to microbes, yet it is also 100% biodegradable and environmentally friendly --- breaking down to water and oxygen when exposed to light.

The efficacy and safe use of Hydrogen Peroxide depends on its concentration and contact time. Systematic monitoring of the environment and a proper evaluation



of the bioload are necessary for the optimization of concentration and contact time required for the termination of contamination.

ARGËSIL kills up to 99.999% harmful and infectious microbes in just one use, in mere 5 minutes.*

*Refer the Efficacy Study Report as per EN 1276 Guidelines.



Technical Datasheet

Argesil is a highly recommended multipurpose disinfectant for use in Medical Set-ups for maintaining highest level of health, hygiene & safety standards. Its regular use prevents biofilm formation and protects from serious illness-causing microbes, multiple drug resistant bacteria and spores.



Composition:

Hydrogen Peroxide 25% w/v Silver Nanoparticles 0.025% w/v D M water q.s.

- Efficacy Tested in NABL accredited lab
- Recommended by WHO, EPA, CDC & ICMR
- Manufactured in GMP certified facility

Application:

Surface Disinfection, Aerial Fumigation, Sterilization of Medical Devices & Surgical Instruments, Laundry, Air handling Filters, PPEs, etc.

Direction for Use: Dilute Argesil in Clean Water

Aerial Fumigation – 1 part in 9 parts water

Surface & Floor disinfection – 1 part in 9 parts water

Surgical / Sterilisation – 1 part in 1 parts water

Laundry – 1 part in 15 parts water

Storage: Store in cool and dark place

Shelf Life: 12 months from date of manufacturing



CORROSIVE



Health: Not for medicinal use. Can cause eye damage in case of direct contact. May cause mild skin irritation. May cause respiratory irritation. Harmful if swallowed. Keep away from children.

Safety: Wear Personal Protective gear like gloves. Nose mask & eye goggle while using the concentrated liquid. **First Aid:** Wash the affected part with ample water or take medical assistance in case of severe injury/exposure.

Efficacy

H2O2 Conc.	Duration	Killing*	Micro organisms
~ 0.5 %	20 mins	99.99%	E.coli, Staphylococcus Aureus, Pseudomonas Aeriginosa, Salmonella Typhi, Methicillin-Resistant Saphylococcus Aureus and C. albicans.
~ 1.5 %	10 mins	99.99%	
~ 2.5 %	10 mins	99.999%	
~ 5.0%	10 mins	99.999%	
~ 12.5%	5 mins	99.999%	

(*) Tested as per EN 1276 guidelines

^{*}Recommended contact time- 5 to 20 minutes. Contact us for high bio-load customised solution.



Removal of Biofilm

A 'biofilm' is a syntrophic consortium of microorganisms. It is made up of cells sticking to each other and often also to a surface. These adherent cells become embedded within a slimy extracellular matrix that is composed of extracellular polymeric substances. The cells produce EPS components that are typically a polymeric conglomeration of extracellular polysaccharides, proteins, lipids, and DNA. They have a three-dimensional structure and represent a community lifestyle for microorganisms. For that reason, they are also called 'Cities of Microbes'.

Biofilms are responsible for chronic illness and nosocomial infections, industrial pipe fouling, spoilage of foods, contamination of seafood and dairy products, as well as ship hull fouling. Bacterial biofilm-associated infections can also cause diseases in humans, viz. wound infections, osteomyelitis, chronic sinusitis, central nervous system shunt infection, contact lens-associated keratitis, chronic otitis media, cochlear-implant infection, burn-related infection, intravascular-catheter infection.

ARGËSIL is extremely effective in the removal of Biofilm, in just one use.*

*Refer the Efficacy Study Report as per EN 1276 Guidelines.



What makes ARGËSIL the disinfectant whose time has come?

IT PROVIDES FOR CHEMICAL-FREE DISINFECTION. IT CARES FOR OUR ECOLOGY.

ARGËSIL decomposes into water and oxygen. It leaves no chemical residue behind, unlike other chemical-based sanitizers and disinfectants which leave behind a coating of toxic and harmful chemicals over the surfaces they have been deployed upon.

LESSER DOWNTIME! IT CONTINUES TO WORK LONG AFTER ORDINARY DISINFECTANTS HAVE CEASED TO DO SO.

ARGËSIL is made up of Silver Nanoparticles of unique size and shape; it does not form into a cluster of micro-particles unlike other silver salts or colloidal silver formulations. For that reason, it gives continuous killing & all-day protection.

IT'S CHEMICAL-FREE.

ARGËSIL is INFANT and PET Friendly as it is completely free from arsenic, aldehyde, chlorine, and any other toxic chemicals.

IT'S COLOURLESS, ODOURLESS, & ALCOHOL-FREE.

ARGËSIL is pure efficacy, without the frills. Being alcohol-free makes it suitable for disinfecting electronic devices and for use within any religious space/custom that forbids the use of alcohol.

ITWORKS ON A WIDE REPERTOIRE OF SURFACES.

ARGËSIL can be used on all types of porous and nonporous surfaces, including marble, wood, granite, stainless steel, glass, plastic, and graphite, etc.

IT IS FREE FROM NITRATES/NITRITES

Exposure to Nitrates and Nitrites at levels higher than those recommended by the WHO can affect how the blood carries oxygen and can cause methemoglobinemia (also known as 'Blue Baby Syndrome'). Bottle-fed babies under six months old are at the highest risk of getting methemoglobinemia.

MADE WITH INJECTABLE-GRADE, ENDOTOXIN-FREE PURIFIED WATER (WFI)

ARGËSIL is suitable for sterilization & disinfection in medical units and pharmaceutical plants.

https://www.who.int/water sanitation health/dwq/chemicals/ nitratenitrite2ndadd.pdf

CERTIFIED 'BROAD-SPECTRUM' DISINFECTANT

The EPA's definition of a typical broad-spectrum disinfectant encompasses public health claims for all three of the major classes of organisms:

Bacteria - ARGËSIL is effective against gram-negative and gram-positive bacteria.

Fungi - ARGËSIL is effective against at least one pathogenic fungus (usually Trichophyton mentagrophytes).

Viruses - ARGËSIL is effective against pathogenic viruses (at least one enveloped virus such as Influenza A and one non-enveloped virus such as Adenovirus).

Sanitizers are not considered broad-spectrum by EPA's definition as they are only meant to reduce bacteria levels. Broad-Spectrum disinfectants, like ARGËSIL, give complete protection from harmful microbes and toxic chemicals.



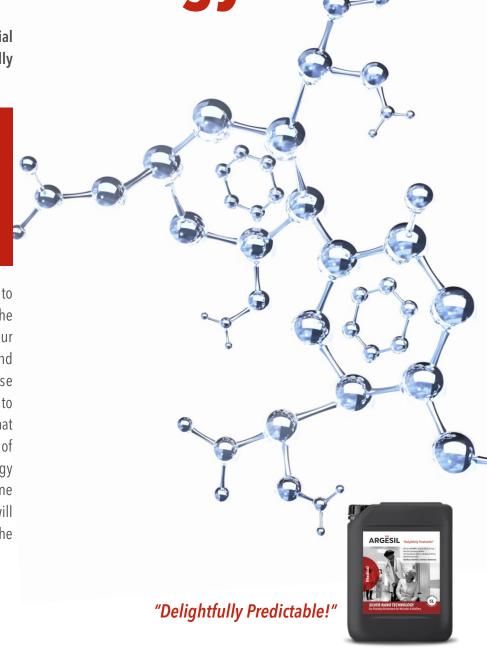
The power of nanotechnology

ARGËSIL utilizes the attributes of Silver Nanoparticles. It has an unprecedented antimicrobial efficacy. It's safe, as it functions without leaving any chemical residue. It's environmentally friendly too --- breaking down to oxygen and water after use.

At a nanoscale, we can control individual atoms and molecules to bring about surprising answers to staid problems.

Nanotechnology has made our phone batteries smaller yet more efficient at compacting power. Nanocrystalline Zinc Selenide has made display screens more immersive and vibrant. Circuits and microprocessors made from Carbon Nanotubes have beefed up computing power; it all gets bigger while shrinking the form factors. Nanotechnology touches our lives in many more ways: Medical/Pharma Applications, Lifesaving Electronic Equipment, Automobiles & Fuels, Endurance Equipment, Fabric & Apparel, Water Filters, Sports & Deep Ocean Applications, Environmental Disinfection, Cosmetics, Food Processing & Preservation, even the metallurgy of the common non-stick pan.

When utilized well, nanotechnology promises to be a manna from heaven as we grapple with the challenges that have been brought about by our unsustainable living. It will extend the lives and performance abilities of resources whose uncontrolled exploitation could be crippling to our ecology. The best sciences are those that 'leave' without leaving behind the vestiges of their aftermath. The choices nanotechnology allows us will do good to the planet -- it may, one day, eliminate the plastic in a whale's belly. It will possibly make the engine-oil changes over the lifetime of your car, count to one!



Science & Sensibility

Balance. Reason. Sustainability.

Those are only dreams for our science.

Reality is, it rarely solves a problem... without creating another.

We ask for a method... minus the madness.

For a science... that makes sense.



The above words are our way of life.

We are ARGENOBËL. Thinkers and innovators who are convinced, we all can have a better, more discerning way of living than what we have now. Our detergents get our clothes all clean and natty, but the stuff that oozes out of our washing machines pollute the seas with phosphates and destroy the ocean ecologies. Our industry has given us prosperity, but it has released enough greenhouse gases to put the planet firmly on the way to extinction. Climate Change is a reality, and we need to change in a hurry too. It starts with acknowledging that our way of doing things, our science, is simply not good enough. We do not solve problems without creating a plethora of others.



Science & Sensibility must go together. We ought to make it happen! ARGENOBËL allows us to do a bit more than just picking up litter off the streets outside our homes. We are glad we can reach out and make a difference that can travel further. We are involved in re-evaluating the solutions that our sciences have provided us so far. We ask, 'How do we make them better?' Better for our planet, better for all its inheritors – now, and the future ones to come. Our foray into the merits of nanotechnology, ARGËSIL, is a sensible, more effective disinfection solution than anything on the market. It underscores our philosophy completely.

The ARGËSIL range

Pharma

Use for disinfecting, sterilizing and sanitizing Cleanrooms, Process Equipment, Water Storage Tanks, Air Handling Filters, Utilities, Purified Water systems, D M Water Resins, Biofilms in Pipes, Fittings, & Ducts, etc.





Professional

ARGËSIL is a multipurpose disinfectant for use in areas with high footfall: Offices, Showrooms, Concierges, Hotel Rooms, Changing Rooms, Restrooms, Floors, Doors, Water Storage Tanks, Air Conditioner Filters, Water-filter Tubes, Pantry Spaces, Countertops, Furniture, Electronic Appliances, etc.

Home

Highly recommended for spraying over Fruits, Vegetables, Meat, outer packs of Parcels, Kitchen, Washing Sink, Living Room, Carpets, Floors, Storage Room, Toilet-Washrooms, Water Storage Tank, Under-ground Water Storage Tank, Cupboards, Air Conditioner Filters, Aqua Guard Tubes, etc.





Agro

Highly recommended for the disinfection of the entire Watering System – like Drip Line Systems, Irrigation Systems, Spray Systems, Silos, Hydroculture, Gutters, etc.







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