



NANOCLEANWORLD®

www.nanocleanworld.com

DISINFECTION TECHNOLOGY

LONG-TERM ANTIVIRAL EFFECT WITH THE POWER OF NANOSILVER



WWW.NANOCLEANWORLD.COM

CONTACT

Contact us for cooperation options!

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OUR MAIN REFERENCES



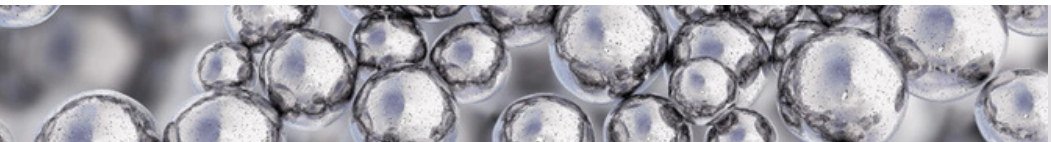
Rein. Persönlich.

Mercedes-Benz



OUR FURTHER REFERENCES

More than 30 schools, the National Institute of Oncology, the National Gene Diagnostic Center, the Public Procurement Authority, international film productions (USA, UK), film studios, factories, sports facilities, office buildings, shopping malls, public transport companies



THE SERVICE

Special innovative solution in disinfection!

With nanotechnology and ultrasonic material application by cold fogging machine.

A completely environmentally friendly disinfectant solution (Nanosept) for surfaces contaminated by viruses, bacteria and fungi, that contains nano silver, hydrogen peroxide and active oxygen is developed with the help of the leading Hungarian research institutes and universities. It is applied with a special fogging technology, which, thanks to its micro-level vaporization, disinfects the entire surface of the objects and the entire area of the room without drops, even those parts that are not accessible by hand.

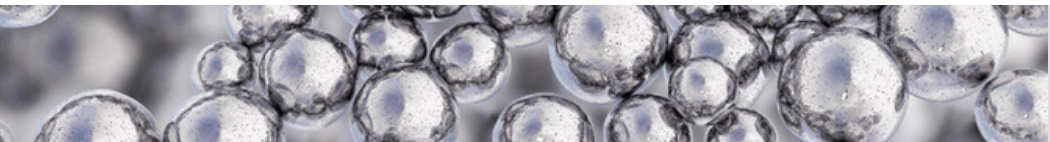
With this procedure, we are able to cover the entire area and airspace of a given room, as the disinfectant spreads in the form of mist and can fill even the tiniest gap.

When the disinfecting is done, we provide a date sticker to the entrance of the disinfected area confirming that disinfection has been carried out, which communicates the hygienic steps taken to the guests! As an additional service, official sampling is also available, which quantifies the data of the treated area before and after the disinfection!

THE EFFECTIVENESS

The NANOSEPT® disinfectants we use extend the antimicrobial effect for several days thanks to the nano silver particles. (confirmed by laboratory tests)

- 100% virucidal, antimicrobial, antibacterial, antifungal and antiviral activity
- Provides quick and efficient disinfection! It disinfects not only the surface of objects and the room, but also the air
- The disinfectant can reach areas that are not accessible by hand
- Broad-spectrum, long-lasting protection (silver left over after the treatment has a longer lasting disinfectant effect, helping to maintain surface hygiene)
- It has a disinfection power 100 times as large as hypoChlorine-free efficiency
- Totally environmentally friendly, 100% degradable in a short time
- Non-allergenic, during the treatment no decomposition products arise which dangerous or harmful to human health



- Suitable for industrial and domestic disinfection as well (home and household disinfection; from health care, hospital use, through agriculture to industrial applications)

It is quick and the treated premise can be used almost immediately after the treatment.

THE DISINFECTION

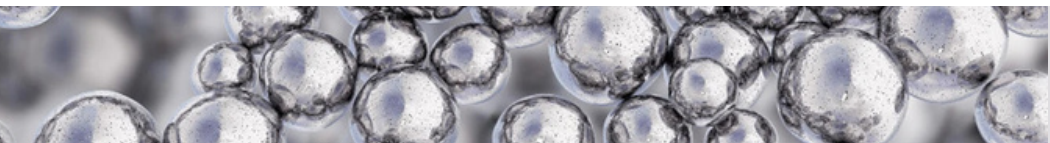
The disinfection is done with ultrasonic fog machines, which can cover the entire surface and the airspace of the premise! The essence of the process is that the disinfectant spreads in the form of drops and can fill even the tiniest gap, covering areas that are difficult to access.

The nano silver-based disinfectant we use provides lasting protection against virus, bacteria, fungi and algae. We will hand over a worksheet of the disinfection we have done!

When the disinfecting is done, we provide a date sticker to the entrance of the disinfected area confirming that disinfection has been carried out, which communicates the hygienic steps taken to the guests!

PROCEDURE OF THE DISINFECTION

- During the disinfection and the exposure to the disinfectant (+ 1 hour) the premise must be undisturbed.
- Before commencing the disinfection, it is the responsibility of the customer to ensure that the fire and smoke alarms in the rooms are switched off during the disinfection and exposure period.
- Do not allow people or animals to enter the premise during disinfection.
- The length of the disinfection also depends on the size of the premise, humidity, and its load.



THE TECHNOLOGY

Our company uses Nanosept for disinfection, these are unique Hungarian-developed eco-friendly bio cleaning and disinfection fluids.

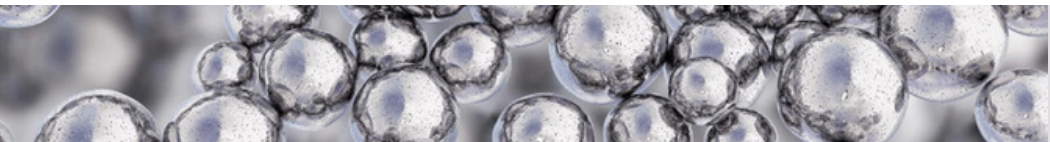
ADVANTAGES OF TREATED SURFACE

Since the dirt does not adhere to the treated surface, the use of cleaning agents can be eliminated, at the same time, cleaning is less frequent and simpler, which saves considerable time and expense. Completely PH-neutral, non-toxic (it can contact with food), antibacterial and antiallergic.

- water repellent
- dirt repellent
- antibacterial
- acid and alkaline resistant (up to PH 2-12)
- flexible (follows surface changes within extremely wide scale)
- UV-resistant
- invisible (does not affect the original texture, color or glitter of the treated surface)
- skin neutral

The NANOSEPT® product line is a new generation of the modern disinfectants produced with nanotechnology. NANOSEPT® is a complex system.

- Nonionic surfactants have a cleaning effect
- Active oxygen has an immediate antimicrobial effect on surfaces and in solutions in a very wide spectrum
- Nano silver particles extend antimicrobial activity for several days (confirmed by laboratory tests)



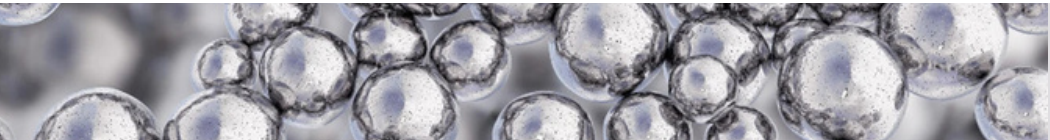
NANOSEPT

NANOSILVER

With nanotechnology we create a layer of nanoparticles on the applied surface that becomes part of it. When the bacterium meets a few nanometer silver particles an oxidation-reduction reaction occurs. The compounds that make up the bacterial cell wall react with the silver particles, oxidize it more precisely, resulting the release of silver ions from the surface of the particle. While the compounds that make up the cell wall oxidize silver, in the process these compounds converts themselves as well, so they are getting reduced. As the building blocks of the cell wall undergo chemical transformation, the cell wall, which protects the bacteria, is damaged so silver ions can easily get inside the bacterium. Silver ions bind to those vital enzymes of the bacterium that catalyze the metabolism of the microorganism. As the proper enzymes of the pathogen undergo chemical transformation, they do not perform their function. The death of the bacteria is thus the result of chemical reactions between silver ions and bacterial enzymes. The surface treated with Nanosept remains antibacterial for a long time, microbiological tests have shown that it is effective against fungi and bacteria as well.

RECOMMENDED FOR:

- schools, kindergartens, communal places
- sports facilities (courts, auditoriums, changing rooms, public areas)
- shopping malls, shops
- passenger transport and trucking industry, airports
- factories, workplaces
- wellness spas, swimming pools
- hospitals



COVID-19 VIRUS

There are currently 7 human coronaviruses, but according to virologists, new infections can be expected due to the rapid spread of the infection.

The difficulty of the accentuated screening protocol tests are that the infection also spreads during the latency period before the onset of symptoms which can take 3-10 days. Coronaviruses can remain active for up to 9 days on glass, metal and plastic surfaces - infectioncontrolday.com writes, citing the results of a German study.

All products used for disinfection are contains hydrogen peroxide and 500 mg/L silver-colloidal active substances, which concludes a very effective broad-spectrum disinfectant. Thanks to the silvers adherence to the surfaces, it helps maintain surface hygiene, bringing disinfection to a whole new level.

ABOUT THE COVID-19

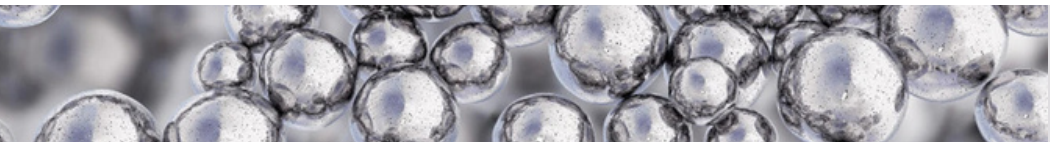
PREVENTION

The nano silver content of the materials used in the surface treatment ensures a long-term disinfection of the treated surfaces, thus, during the epidemic period, in favor of prevention the proper and effective application of surface disinfection plays an important role. In the following image, the left side of the petri dish was treated with our disinfectant and the right side was left untreated. Then the petri dish was stored in the open air.

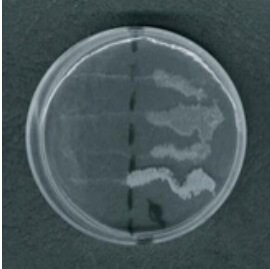
The silver colloid is effective against bacteria, fungi and viruses when it is applied to surfaces. With its regular use, silver is able to provide more porous materials (wood, plastic, interstice, etc.) with more durable antimicrobial properties.

MICROORGANISMS IS USED:

- Staphylococcus aureus
- Escherichia coli
- Pseudomonas aeruginosa
- Candida albicans

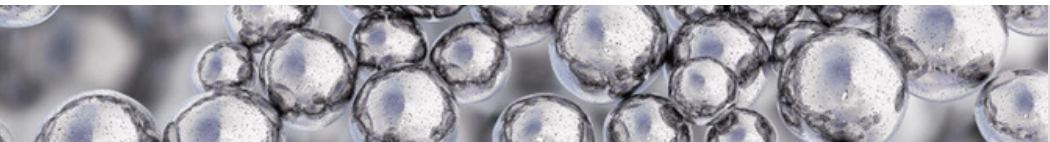


It can be seen that all of the inoculated microorganisms on the treated side of the petri dish (left side) were killed, whereas on the untreated side (right side) the inoculated microorganisms formed colonies.



GENERAL DISINFECTION

Disease control: Health, social, educational, administrative and infrastructure institutions, factories are concerned in this topic and the effectiveness of regular disinfection procedures can be statistically detectable. It is recommended that the spaces which are able to transmit the infections are regularly and thoroughly disinfected in daily or weekly intervals, during the period of risk of infection and in acute cases even more frequent. This disinfection procedure is primarily aimed at disinfecting the risk elements that promote spread. (eg handrails, handles, push buttons, switches, tables, mobile electronics and its accessories, keyboards, etc.)



AREA OF USE

Disinfection with cold fogging:

- For the disinfection of entrances, corridors, reception, lobby, bar, restaurant, rooms, conference rooms, wellness, fitness, sauna
- For the disinfection of air exchange systems and central air conditionals.

Disinfection with outplacement of nanotechnological material:

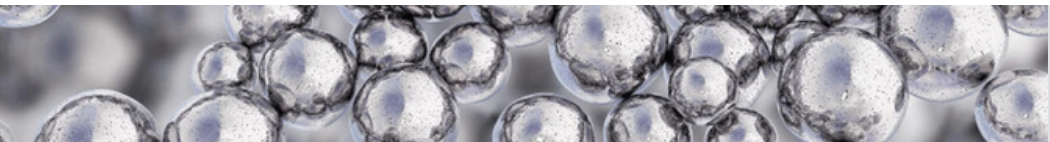
- For the disinfection of water network and pools.

Continuous disinfection with leased machine and assured material:

- Our outsourced hand-held devices are suitable for fast and efficient disinfection of rooms during guest exchanges.

COMPARISON WITH OTHER METHODS

	NANOTECHNOLOGICAL DISINFECTION	UV-C LAMP	OZONE GENERATOR	DISINFECTION WITH HYPO
TREATMENT TIME (BROKEN DOWN BY 60 M2)	15 minutes	60-90 minutes	60-120 minutes	60 minutes
OCCUPATION OF THE TREATED AREA	almost immediately	almost immediately	after thorough ventilation (15-30 minutes)	after drying
PROTECTION PERIOD	7-10 days full protection	until the next touch/droplet infection	until the next touch/droplet infection	until the next touch/droplet infection
ENVIRONMENTAL EFFECT	environmentally friendly, harmless to furnishings, drip-free, pleasant smell	it can age plastics, wooden furniture and their surfaces	it can age plastics, wooden furniture and their surfaces, causes damage in houseplants, leaves an unpleasant odor	it cause damage to furniture and electrical appliances, leaves an unpleasant odor
DISINFECTABLE AREA	airspace, objects, equipment	airspace, areas directly affected by light	airspace, objects, equipment	objects, equipment
AREA OF USE	outdoor, indoor	indoor	closed indoor	outdoor, indoor





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