



SANOSIL

DISINFECTANTS FOR LIFE 



Sanosil Super 25

Disinfectant concentrate
for water disinfection

www.sanosil.com

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Disinfectant concentrate
for water disinfection



Ideal for process water treatment,
Legionella control, irrigation systems,
drinking water installations, water tanks and pipes.

- ✔ Effective water disinfection with a long-lasting effect
- ✔ Highly effective against biofilms and VBNC bacteria
- ✔ Odourless and tasteless in treated water
- ✔ Very high yield - effective from 0.01 ml/l
- ✔ No chlorine/chlorine compounds or QAC, bromine or isothiazolinones
- ✔ Does not develop AOX / trihalomethanes
- ✔ With catalytically enhanced hydrogen peroxide
- ✔ The hydrogen peroxide completely (100%) decomposes into water and oxygen
- ✔ Shelf life of over 2 years
- ✔ High-quality product made in Switzerland



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PRODUCT DESCRIPTION

Sanosil Super 25 is a disinfectant concentrate suitable for water, pipe and tank disinfection. Hydrogen peroxide is used as the active ingredient. It is also stabilised and its disinfecting effect is catalytically enhanced several times over by adding a minimal amount of silver ions.

This process can increase the disinfection effect by up to 800%. After application, hydrogen peroxide also completely decomposes into water and oxygen.

The minimal amount of silver remaining after the peroxide has broken down inhibits the multiplication of germs and has additional conservation properties, especially in water systems.

Compared to the less concentrated Sanosil S015, Sanosil Super 25 is a hazardous material. Safety, storage and transport regulations must be observed.



Sanosil Super 25



OVERVIEW

PRODUCT TYPE

Concentrated (dangerous goods)

SUITABILITY

Water disinfection

- Water treatment
- Content disinfection (tanks, pipes, drinking water systems)
- Legionella control

SHELF LIFE

2.5 years

CONTAINS

49.8g/100g hydrogen peroxide
0.05g/100g silver



WATER DISINFECTION: INCIDENTAL INFORMATION

Note: In the case of serious biofilm growth, disinfection with conventional products is usually useless because the biofilms (slimy deposits of bacteria, fungi and protozoa) cannot be reliably removed.

In addition, the bacteria are often in a "VBNC" state (Viable But Not Culturable). This distorts the measured results and conveys a false sense of security.

In contrast, Sanosil can effectively eliminate both biofilms and VBNC germs.

HOW IT WORKS

- 1** The oxygen ($^1\text{O}_2/\text{O}_2$) released by the hydrogen peroxide attacks the cell walls of the microorganisms. Oxidation (cold combustion) denatures and destroys them.
- 2** The effect is supported by silver ions, which enhance the effect of the peroxide in a catalytic process. They also inhibit the metabolism (where present) and the germs' ability to multiply.



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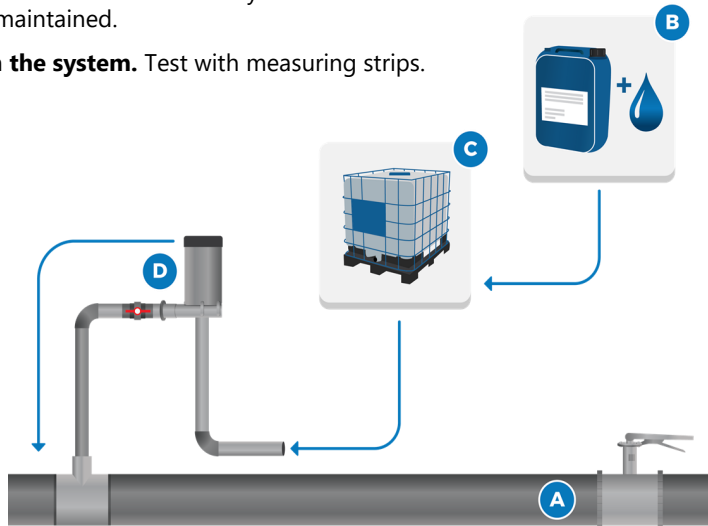
PIPE DISINFECTION / LEGIONELLA CONTROL

In hot and cold water systems

Legionella are essentially harmless bacteria that occur in drinking and process water. They begin proliferating vigorously at warm temperatures (25-50°C). There is a risk of severe infections if aerosols containing legionella are inhaled. Regular disinfection of critical equipment eliminates this risk.

IMPLEMENTATION

1. Mix **Sanosil Super 25** (B) with water in a container (C). Dosage: 1 ml per litre of water.
2. Pump the **disinfectant solution** into the system to be disinfected (A) using a pump (D) and fill it completely. To do this, open all the tapping points until disinfectant solution flows out. Test with measuring strips. Avoid dead water zones and air pockets. During disinfection, block all the tapping points for regular use or attach appropriate warnings.
3. Allow it to take effect for at least **4 hours** (safety margin due to possible biofilms). Occasionally open the water tapping points slightly so that fresh disinfectant solution can flow in and the concentration in the system can be uniformly maintained.
4. **Thoroughly flush the system.** Test with measuring strips.



Sanosil Super 25

EFFECTIVENESS

STANDARDS / EXPOSURE TIMES

LEGIONELLA
Legionellacide

EN13623 :
1ml/l Sanosil Super 25
> Log 5 (- 99.999%) in 60 minutes

EN13623 :
0.07ml/l Sanosil Super25
> Log 5 (- 99.999%) in 15 hours

Note: Limit value for legionella in retirement homes and hospitals, etc.: 100 cfu/l. Other buildings, shower water and cooling water: 1000 cfu/l. Initiate the treatment process if the limit value is exceeded.

Verification of disinfectant content



Sanopstrips 200 measuring strips, which react to Sanosil Super 25 by turning blue, are suitable for detecting Sanosil in water.

Proportional dosing unit



We recommend a proportional dosing pump for regular applications



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GENERAL WATER

Drinking water equipment, process water

Note: An increased dose of disinfectant is added sporadically to the contaminated system during a shock disinfection procedure. This is carried out for acute eradication of germs and the removal of biofilms.

Maintenance disinfection involves the continuous application of small doses of disinfectant. The objective here is to prevent or inhibit the formation of new germs and biofilms.

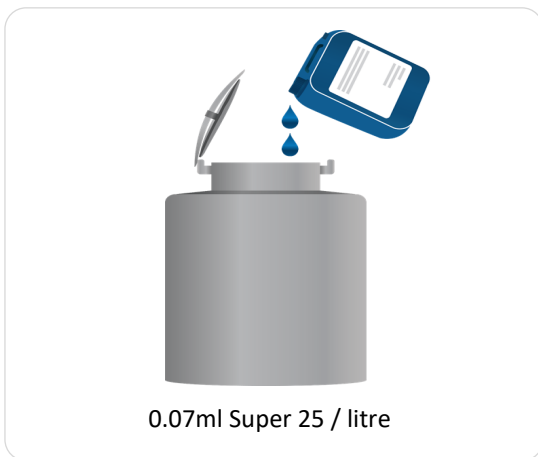
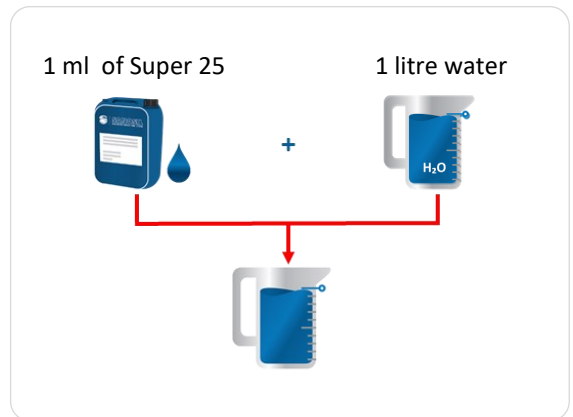
Combining the two methods is ideal.



PIPE AND TANK DISINFECTION (SHOCK TREATMENT)

Shock treatment procedures are used for contaminated water systems, such as pipes and tanks as well as for disinfecting liquid laboratory waste.

1. Mix disinfectant solution: 1 ml of Sanosil Super 25 per l of water
2. Completely fill the pipe / tank with disinfectant solution
3. Let it take effect for at least 4 hours
4. Flush out disinfectant solution



DRINKING WATER* CONSERVATION

Water preservation helps to give water in closed containers an extended shelf life.

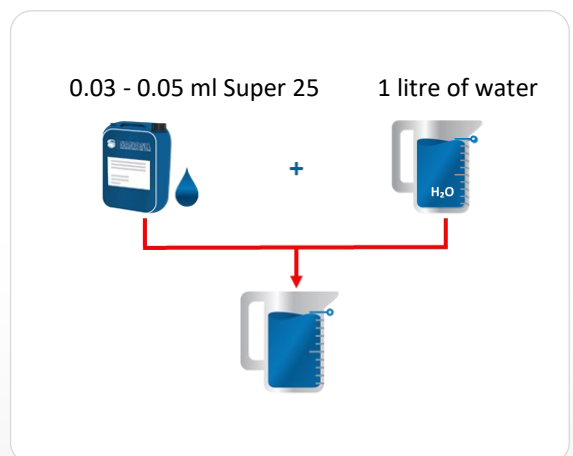
1. Mix disinfectant solution: 0.07 ml/l (emergency water preservation for drinking water)
2. Fill the tank and seal it tightly
3. The shelf life is up to several weeks depending on the raw water quality

* In order to treat drinking water with products containing hydrogen peroxide, such as Sanosil, the appropriate approvals are required. These are not available for all countries. Without the necessary approval, Sanosil products may only be used via discontinuous application (shock disinfection) / treating process water. Please contact the competent authority to ensure legally compliant use of the products.

PROCESS / IRRIGATION WATER DISINFECTION

The continuous process water disinfection method prevents the growth of germs in liquids / water. This is ideal for cooling water, humidifiers and irrigation systems, etc.

1. Shock disinfection of the entire system with 1 ml of Sanosil Super 25 per litre of water for at least 4 hours
2. Flush the system
3. Continuously add 0.03 – 0.05 ml Super 25 per litre of water to the water. (This is ideally carried out using a dosing pump or a proportional dosing system)



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Use biocides safely. Always read the label and product information before use. Our technical application advice, both written and verbal, is based on extensive testing. We give advice to the best of our current knowledge, but without any liability, as application and storage are beyond our direct control. Product descriptions or information about the properties of the preparations do not contain any statements about liability for any damage.



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