



# SANOSIL

DISINFECTANTS FOR LIFE 



# Sanosil MC-S

Acidic special cleaner for membrane filter systems

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Acidic special cleaner for reverse osmosis, microfiltration and ultrafiltration systems



**... for cleaning and decalcifying acid-resistant filter materials**

- ✔ Removes poorly soluble mineral deposits from filter materials
- ✔ Removes metal hydroxides and oxides (rust, etc.)
- ✔ Dissolves limescale crusts, organic contamination and oil residues
- ✔ Optimises the flow rate, reduces filter pressure and energy consumption
- ✔ Easy to rinse – also suitable for drinking water systems
- ✔ Low-foam for optimum handling
- ✔ Compatible with Sanosil disinfectants – with a synergistic effect
- ✔ Can also be used to treat fabric filters and ceramic filter cartridges
- ✔ High-quality product made in Switzerland



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**SANOSIL AG** • CH-8634 Hombrechtikon • Switzerland  
E-mail: [service@sanosil.com](mailto:service@sanosil.com)  
[www.sanosil.com](http://www.sanosil.com)



## Sanosil MC-S: product description

MC-S is an acidic, low-foaming special cleaner for membrane filters in technical water and wastewater treatment. E.g. cooling, industrial or drinking water treatment in the food industry, power plants, machine industry as well as the car wash and garage industry (washing water and wastewater treatment).

Sanosil MC-S effectively and efficiently removes limescale, carbonate and phosphate-containing mineral sediments, insoluble calcium-magnesium salts, metal oxides and hydroxides, as well as light oil and grease residues.

Due the removal of caking from the filter membranes with Sanosil MC-S, the flow rate is increased, the back pressure is reduced and the energy consumption of the installed pumps is lowered.

MC-S is fully compatible with Sanosil disinfectants as a co- or combination treatment to remove additional microorganisms and biofilms.



Industrial water treatment plant with pre-filters (left) and membrane filters (right)



## OVERVIEW

### Product type

Concentrate (dangerous goods, UN no. 3265)

### Application

Circulation / continuous process, immersion treatment

### Compatible filter materials

Acid-tolerant filter materials (see material compatibility)

### Dosage / exposure time

0.5–2% for 1–3 hours

### pH value

1–2

### Contains:

Methylsulfonic acid  
<5% anionic surfactants  
<5% non-ionic surfactants

## Material compatibility

Before using Sanosil MC-S, check the material properties of the installed filters. The table below provides information about the principle chemical compatibility of the most common filter materials with Sanosil MC-S\*.

Caution: if the application is to be carried out in a flow-through or recirculation process, the chemical resistance of pipes, seals and pumps to acids must also be taken into consideration.

Abbreviation	PA	PS	PES	PVDF	PTFE	CA	-
Name	Polyamide,	Polysulfon	Polyethersulfone	Polyvinylidene fluoride	Polytetrafluoroethylene	Cellulose acetate	Ceramic
MC-S	Conditionally compatible: E.g. Filmtec™ Thinfilm Composite: pH 1–13 for 30 min at 45°C *	Compatible*	Compatible*	Compatible*	Compatible*	Conditionally compatible (pH 4–8)*	Compatible*

\* The information on the compatibility of the materials is based on generally accessible material compatibility lists of the manufacturers and industry. Sanosil AG assumes no liability with regard to material resistance.



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## Instructions for use

### Precautionary measures:

The usual precautions for handling acids apply: avoid contact with eyes and skin, do not ingest, do not inhale aerosols.



Sanosil MC-S

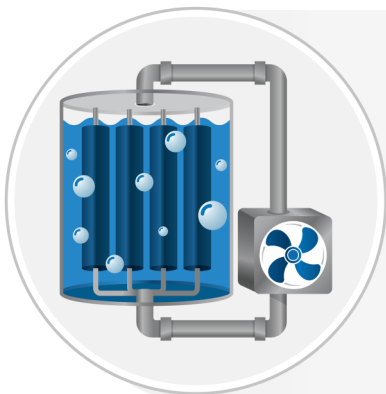
### Immersion / insertion

The simplest method for treating filters is to immerse the dirty filter cartridges in a cleaning solution. An increased application temperature accelerates the cleaning effect. After immersion in the cleaning solution, the filter cartridge is thoroughly (back)washed with clean water until no more acid residues (measured with pH measuring probe or indicator paper) can be detected.

**Dosing MC-S: 0.5–2%**

**Temperature: 30–50 °C**

**Exposure time: 1–3 hours**



### Circulation / continuous process

A cleaning solution is created and ideally circulated using the delivery pump (CIP principle). We recommend sporadic backwashing, during which the rinsing liquid is discarded with substances dissolved from the filter, in case of heavy contamination with solid dirt particles. After the cleaning solution, rinse the system thoroughly using clear water.

**Dosing MC-S: 0.5–2%**

**Temperature: 30–50 °C**

**Exposure time: 1–3 hours**

### Combination treatment with Sanosil disinfectant

If the filter needs to be disinfected as well as thoroughly cleaned, optimum results can be achieved with the Sanosil disinfectants S015 or Super 25.

Please note that very heavy contamination with organic substances can cause undesirable foaming and a pressure build-up in the system. This is why Sanosil disinfectant should only be used after backwashing the filter and slowly introducing it into the cleaning process:

Treat filter with 0.5–2% Sanosil MC-S solution for approximately 30 minutes. After approximately 30 minutes, slowly add 0.3–0.5% Sanosil Super 25 or 2–3.5% Sanosil S015 to the solution. Allow to circulate for approximately 3 hours and rinse well.



**Our application notes, both in written and verbal form, are based on extensive testing.**

We provide advice to the best of our current knowledge, but without any obligation insofar as the application and storage are beyond our direct control. Product descriptions or information about the properties of the preparations do not contain any statements concerning liability for any damage.



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