

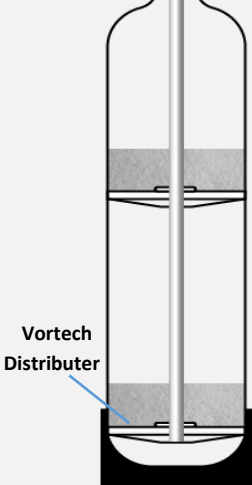
FILTERSORB® 100

SCALE PREVENTION MEDIA BASED ON NAC TECHNOLOGY

FILTERSORB® 100 Process Description

Nucleation Assisted Crystallization

Water In → Water Out



Simple Calculation

Chamber1.

2 Liters of **Filtersorb SPA** + **CarbonTrapp** to Remove Anions From **Hardwater** up-to 50 grains.

Simple Calculation

Chamber2.

2 Liters of **Filtersorb SP3** needed to treat 1000 liters of Hardwater up-to 50 grains Life of Media 7-10 years

- A. Up Flow Tank Adapter R 1" 1 1/2" 2"
Flow Rates 0.5m³ to 20m³
- B. Vortech tanks 40% **Chamber 1**
60% **Chamber 2**
For Sizes please ask [Watch Water®](http://www.watchwater.de)
- C. Tools to Fill Chambers 1 and 2.

100% Scale Prevention

Watch Water® Challenge

All over the world, the ground water contains geologically – caused **Calcium, Magnesium, Silicate** and **Sulphate** in high concentration. The overall water hardness can reach values of more than 20 to 80 grains. (1) Grain is equal to 17.1mg of **CaCO₃**. Hardwater causes many problems in both private households and Industry. Therefore everybody has to install a water softener system to remove this significantly increased content of Calcium and Magnesium but they also have to remove silicates and sulphates which cannot be removed through a water softener. To remove this they have to install partial desalination and this is very expensive.

With **FILTERSORB® SP3** and **FILTERSORB® SPA** each household can **save 2 Euro** per cubic meter compared with the use of household water softener.

At the same time, the **FILTERSORB® 100%** process provides 100% corrosion protection that means better water quality than traditional softening systems. The toxic metals such as Lead and Copper are reduced 100%. This is the reason to give it the name "**FILTERSORB® 100**".



High Efficacy



100 % Efficiency



No Maintenance



Scale Prevention



Scale



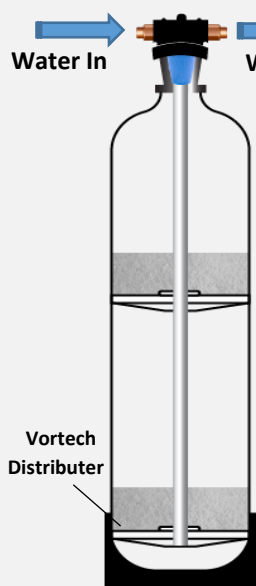
Corrosion → Biofouling

PROCESS DESCRIPTION

Filtersorb 100 Process Description

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Products to Order

- **My Magnesium Filter**
- **My Filtersorb-SP 100**
- **My Titan Filter**
- **My Katalox-Light Filter**
- **My Catalytic Carbon Filter**
- **My Trappsorb Filter**
- **My Nitrotrapp Filter**



HOW FILTERSORB® 100 WORKS

The **Iron** and **Manganese** free **Hardwater** flows through the **FILTERSORB® SP3** chamber 2 here the **Partial Softening** takes place **Temporary Hardness, Calcium, Magnesium** and **Carbonate hardness** are separated into $\text{CaCO}_{3(s)}$ crystals and $\text{CO}_{2(g)}$. Water flows with CaCO_3 crystals and Anions such as sulphates and silicates including carbon dioxide. The produced carbon dioxide, sulphates and silicates are removed in upstream **Chamber No. 1** via **FILTERSORB® SPA**. From the **Chamber No.1** the treated water moves the following application.

The first Scale Prevention Media with 100% top Quality Drinking Water

Benefits

- **Effective removal of hardness**, Lead, Copper, Sulphates, Silicates and CO_2 from water.
- Simultaneous removal of Cations and Anions without corrosion effects of CO_2 in water.
- **Zero Operating Costs** without any Electric and Regeneration Costs.
- **Problem free operation** with absolute no automation.
- Fast capacity increases by **FILTERSORB® SP3** and **SPA** addition.
- Especially Environmentally friendly process
- **Reduce 100% CO_2** the greenhouse gas (Carbon Dioxide) during the operation
- Can be installed **Worldwide** to produce **Scale Free Operation.**



Beware of fake products

