

WATCH iSOFT

INTELLIGENT WATER SOFTENER

NEEDS

iSOFT

All
Industrial &
Commercial
Applications



- NO Pressure Vessels
- NO Ion Exchange Resins
- NO Control Valves
- NO Brine tanks
- NO Salt
- NO Backwash

NO Waste Water with
Regeneration

And environmentally
the **BEST SOLUTION**



- NO PHOSPHONATES
- NO PHOSPHATES
- NO EDTA
- NO NTA



WATCH WATER TECHNOLOGY

Leading manufacturer of GREEN CHEMICALS for Water Technology

APPLICATION

Intelligent softener can be employed in a very wide range of different applications. iSOFT is recommended for the following applications:

PREVENTING SCALE FORMATION



Softening Alkali earth cations such as calcium and magnesium and inorganic anions such as carbonate and phosphate are present in virtually all aqueous systems. Their sparingly salts from scale that can disrupt many industrial processes. The iSOFT intelligent water softener has a very high binding power for calcium & magnesium which enables them to dissolve existing calcium & magnesium scale and prevent 100% to form any new scale. iSOFT displaces the equilibrium of the precipitation reaction by sequestering the calcium & magnesium cations. iSOFT has a very high affinity for calcium and magnesium compared to all softeners available on the market, such as ion exchange resins.

If you want to do the experiments, calcium carbonate scale on the plate can be removed by dipping it in a solution of iSOFT. It will be absolute clean or cleaner than on the plate dipped in soft water. Ion exchange water softeners change carbonates to sodium bicarbonate scale which is not possible to remove. It becomes even worse than before. This point needs to be taken into account when comparing the performance of the iSOFT with ion exchange softeners. The iSOFT has more effective softening strength than any other softener. The dosage of iSOFT depends on water hardness. There are only very small quantities required to obtain the best possible effect. The quantities of iSOFT that need to be applied see the dilution chart.



PLEASE NOTE

Inhibiting calcium carbonate scale with phosphonates, phosphates, EDTA, NTA and water-soluble polymers, when used to prevent scale or calcium carbonate from precipitating and forming scale these substances acting by temporarily delaying the onset of crystallization ALL ABOVE SUBSTANCES can cause scale because the calcium ions do not form permanent bounds.

NOTE AGAIN

Intelligent water softener such as iSOFT acts differently, because they prevent salts from precipitating and forming scale by sequestering the calcium, magnesium and all other CATIONS. Scale can not be formed, because iSOFT contains a special mixture of polysalts these can boost the action of inhibitory scale formation iSOFT can be used overall to avoid scale and in any application.



SALT - YOU DON'T NEED IT ANYMORE



ACTIVE INGREDIENTS IN ISOFT

iSOFT Intelligent Water Softener is the mixture of trisodium salts and polysalts with absolute no potential harmful effects. It is non toxic, not irritating to eyes or skin. No special measures necessary provided if product is used and handled correctly. No special precautions necessary against fire and explosion.

PHYSICAL & CHEMICAL PROPERTIES	
Form	liquid
Odour	none
Colour	slight yellowish
pH value	10,5 - 11
Density	1,25 - 1,30
None hazardous when stored and handled accordingly	

EVALUATION READILY BIODEGRADABLE	
Degree of elimination	95%-100% (14 days)
Method of analysis	BOD of COD

BENEFITS

- 🌟 Dissolving calcium carbonate scale
- 🌟 Sequestering the calcium cations
- 🌟 Dissolving calcium phosphate scale
- 🌟 Removing organic scale
- 🌟 Removing calcium oxalate
- 🌟 Removing metal scale

DOSING TABLE FOR ISOFT INDUSTRIAL & COMMERCIAL UNITS		
Classification	Water Hardness	iSOFT
Soft	below 17mg/litre or ppm (0 - 1 gpg)	5 mg / litre
Slightly hard	17,1 - 60 m/litre or ppm (1.1 - 3,5 gpg)	10 mg / litre
Moderately hard	61 - 120 mg/litre or ppm (3,6 - 7 gpg)	20 mg / litre
Hard	121 - 180 mg/litre or ppm	25 mg / litre
Very hard	over 180mg /litre or ppm (over 10,5 gpg)	40 mg / litre

IMPORTANT

This is very important to know that ISOFT intelligent water softener contains **NO PHOSPHONATES, NO PHOSPHATES, NO EDTA, NO NTA** and will not harm environment. ISOFT water softener is so easy to use. It only needs the dosing pumps and the right dosing calculation. iSoft is available in both „concentrate“ & „ready to use“ form.

VERY IMPORTANT FOR ENVIRONMENTS

There is absolute need for ion exchange softeners, phosphonates, phosphates, EDTA and NTA to be replaced in many applications because of issues concerning the effects of salt rejection and phosphorus compounds on aquatic life and water quality. All these products are not biodegradable.

Using ISOFT is the best choice when it comes to be the **most ecofriendly** water softener **in the world**.



INTRODUCTION

A **unique water softener** for industrial and commercial applications. Our technology is consistently efficient, cost-effective and only in the world.

PROBLEMS WITH ION-EXCHANGE SOFTENER



One one of the first problem and sometimes major problem with a water softener system that uses salt is that of course your water will have a very high amount of sodium which for some people can be hazardous, highly dependent if you have a particular medical situation or if you have a particularly strong hard water system which of course means more sodium overall in your water. Another drawback is that certain regions ban softener systems that use salt due to possible environmental damage.

SO WHAT ARE THE ALTERNATIVES?

ISOFT THE INTELLIGENCE WATER SOFTENER

It is absolute the right name for this product. The **ISOFT** is the right choice of many consumers because it is the most enviromentally safe product. The **ISOFT** can protect pipes, like boilers, cooling towers, reverse osmosis, all machines like washing & dish washers, and much more. Though take note that for every application there are recommended dosages of **ISOFT**. It is important that the proper dosages are used to make sure that the product will work well without any harmful effects.

ABOUT WATCH



WATCHWATER is a leading producer for Filtersorb SP3 media, zeosorb, Titansorb HSR for Hydrogensulfide removal and Green Chemicals saving the water treatment, catalyst, and beverage markets.

It is a global enterprise operating on five continents. Call today to find out more about why Watchwater is the best choice in watertreatment.

Send us a mail at sales@watchwater.de.

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