

# Water Softener Regeneration Salt

Rejenerasyon Tuzu

Regenerationsalz

ملح التجديد

再生盐

Sale rigenerante

Sel de régénération

Herstel sout



**S**  **LT**



# Effects of Hard Water ...



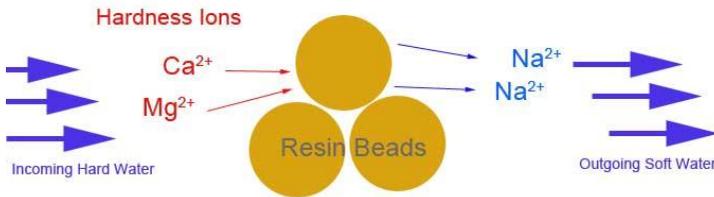
- **Scaling of Appliances**
- **Damage to expensive plumbing**
- **Leakages and choking of pipes**
- **Aesthetic damage of tiles**
- **Indirect losses due to scaling**

- **Skin Diseases**
- **Hair Damage and Loss**
- **Fabric discoloration and damage**
- **Excess use of detergents**
- **Damage of all objects cleaned by water**



# Resin based Water Softeners : Hardness Removal Systems

Water softener works on the principle of ion exchange to replace hardness causing Calcium (Ca) and Magnesium (Mg) to replace it with sodium (Na). The water coming out of the water softener is not having any of the undesirable effects of hard water.



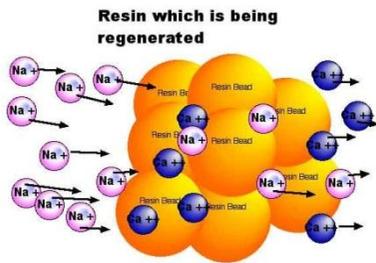
The Calcium and Magnesium Ions are exchanged for Sodium Ions



When hard water passes through your water softener, ions of calcium and magnesium in the water are replaced with sodium ions. This process takes place in the resin bed.

## Softener Regeneration

Water softener regeneration is the process through which the water softener flushes out the minerals it catches from the hard water, so it can continue to soften new water as it comes through.



For this system to be effective, your water softener needs to cleanse the resin bed of the harsh minerals when it becomes saturated. Brine solution is used for this purpose



# Softener Regeneration Salt Tablets - TSF



*The choice of professionals..*

Recommended to use with US, EU, ME and SA leading softener brands for Premium Automatic and Manual regeneration models for optimum resin performance and efficiency

## Why TSF salt tablets..?

• **TSF Salt tablets guarantee flawless operation** of your ion exchanger system, thanks to their perfect characteristics.

• **TSF Salt tablets exceed the requirements** set for regeneration salts in EN 14805 Type1 and EN 973 Type A:

• **Purity - for high-capacity regeneration and long softener life**  
TSF Salt tablets consist of ultrapure vacuum salt with sodium chloride content of at least 99.5 percent.

• **Solubility - no residue in the salt-dissolving container**  
TSF Salt tablets' great purity and solubility eliminate ion exchange resin malfunctions and blocked valves, and they ensure the resin's ion exchange capacity.

• **Insoluble elements content:** less than 0.01% guaranteed! No Iodine unlike locally available food grade salts which affect the resin

• **Shape - no salt clumping in the dissolving container**  
TSF Salt tablets' specific shape and surface guarantee fast formation of a saturated brine and the right circulation of solution. The defined shape allows optimal solubility.

• **Stability - no salt mass forms at the bottom of the salt container**  
TSF Salt tablets are produced with uniform pressure, which ensures controlled solubility.

✓ High Purity

✓ High Quality

>99.5%  
NaCl

0 %  
Iodine

Non  
Food-grade

0.1 %  
Moisture

Special  
moisture free  
packaging



# Useful Tips for Softeners

To maximize the service life of your water softening system be sure to have it serviced by a technician at least once a year.

## Tip #1: Regularly Check Your System's Salt Levels

With most water softeners, your salt can be found in the brine tank, which is used to produce the sodium ions that will "swap" with magnesium and calcium ions in a process called ion exchange.

If your salt level is too low, your softener won't have what it needs to perform this process. The result is hard water that leaves chalky white residue on fixtures and leaves skin and hair feeling sticky and dry.

## Tip #2: Clean Your Brine Tank Regularly

Most water softener experts recommend cleaning your brine tank once per year. Otherwise, salt can form clumps or sludge and reduce the effectiveness of your softener's regeneration process. If your water has high levels of iron or sediment, you may need to clean your brine tank more often.

## Tip #3: Look For and Eliminate Salt Bridges

A salt bridge is a crusty buildup of salt residue that collects in the tank of your water softener. When a salt bridge forms, the salt will not dissolve in the water to form brine. Without the brine, resin does not regenerate properly, so the water does not get softened. A salt bridge forms in high humidity or from using low-quality salt.

## Tip #4: Replace Your Water Softener Resin:

Resin is a crucial element of your water softener's operation since it allows ion exchange to take place. Though resin is usually designed to last the duration of a water softener's lifetime (around 3 to 5 years) high levels of iron and chlorine can sometimes break down resin faster than usual.

## Tip #5: Use the Right Type of Salt:

Only use high quality salt designed for use in water softeners. Other types of salt will have a high level of insoluble impurities that could build up and clog your system. High-purity salt costs more than other types of salt, but the investment is worth it to protect the longevity of your water softener.

## Tip #6: Add a Prefilter:

If your water has sediment, iron, sand, clay or other substances — commonly found in well water or tap water in certain areas throughout the country — your water softener could become clogged or damaged. A Prefilter removes these contaminants from your water supply before it reaches your water softener and remains effective for six to nine months before needing a replacement



## TSF Salt Tablets – Vacuum Compressed Pure Sodium Chloride

- Appearance: Round white

Chemical Analysis	Typical Values	Method
Sodium chloride	99.93 %	EN 973
Calcium + Magnesium	0.004 %	ISO 2482
Sulphate	0.04 %	ISO 2480
H <sub>2</sub> O-insoluble	0.005 %	ISO 2479
Moisture	0.02 %	ISO 2483
Arsenic	< 0.1 mg/kg	EN 973
Cadmium	< 0.1 mg/kg	EN 973
Chromium	< 0.1 mg/kg	EN 973
Mercury	< 0.02 mg/kg	EN 973
Nickel	< 0.1 mg/kg	EN 973
Lead	< 0.5 mg/kg	EN 973
Antimony	< 0.1 mg/kg	EN 973
Selenium	< 0.1 mg/kg	EN 973
Copper	< 0.1 mg/kg	EuSalt AS 015
Iron	< 1 mg/kg	EuSalt AS 015
Manganese	< 0.1 mg/kg	EuSalt AS 015

- Physical Properties:

Bulk density	1.000 Kg/m <sup>3</sup>	EN1236
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Note: Specifications are based on requirements of NF, EN 973, EN 14805 and Codex Alimentarius. Typical values are based on regular analysis

- Dimensions

Diameter	:	23.0 mm	
Height	:	12.5 mm	
Weight (Approx):		13 gms.	0.4585oz

The tablets are produced from refined food grade salt which complies with the purity criterion of the Codex Alimentarius.

The preceding data result from our quality control. They do not release the user from a control on entry and are not meant to guarantee the properties. The qualification of the product for a certain application has to be checked by the customer.

This product is in compliance with EN-973(A): Regeneration salt for ion exchange systems and EN 14805 type 1: Chemicals used for treatment of water intended for human consumption – Sodium chloride for onsite electro chlorination using non-membrane technology.

Tablets are in compliance with the NF mark for water treatment devices: regenerating salts for water softeners.

### **Field of application**

For industrial uses.

TSF SALT tablets are specially produced to obtain a very pure brine for regeneration of ion exchange resins in water softeners.

### Production process.

TSF SALT tablets are obtained by very high mechanical pressure, without anticaking agent.

### Storage

Handling and storage should be ensured under proper hygiene and preservation conditions so as to exclude any risk of contamination. Do not stack up more than 4 pallets.

### Safety

A safety data sheet on SODIUM CHLORIDE can be obtained from TSF on request. Sodium chloride is exempt from the REACH registration requirement because it is a natural mineral.

#### • Supply data

- 25kgs (55.11lbs) bulk packs in HDPE
- 8kg (17.63lbs) special 135 micron LDPE reusable packaging on order
- Other packages on request for an MOQ

The preceding data result from our quality control. They do not release the user from a control on entry and are not meant to guarantee the properties. The qualification of the product for a certain application has to be checked by the customer.