The Perfect Formulations
INSTANT-TECHNOLOGY
### 1. INSTANT – I-SOFT

**Water Softening (the complete picture)**

Hard Water contains salts of **Cations** and **Anions**:

<table>
<thead>
<tr>
<th>Cations</th>
<th>Anions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca$^{2+}$</td>
<td>HCO$_3^-$</td>
</tr>
<tr>
<td>Mg$^{2+}$</td>
<td>Cl$^-$</td>
</tr>
<tr>
<td>Fe$^{2+}$</td>
<td>SO$_4^{2-}$</td>
</tr>
<tr>
<td></td>
<td>SiO$_2$</td>
</tr>
<tr>
<td></td>
<td>PO$_4^{3-}$</td>
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</tbody>
</table>

**Water hardness caused by Ca(HCO$_3$)$_2$ is called Temporary Water Hardness which converts to insoluble CaCO$_3$ with SP3 Treatment**

- bicarbonate Water Hardness
  - Directly Treated by SP3

**Non-bicarbonate Water Hardness**

- **ONLY Treated by I-SOFT**

Other Salts Anions hardness is called Permanent Water Hardness and ONLY I-SOFT can take care of this Permanent Hardness.

Correct FILTERSORB SP3 for hard water scale prevention based on Nucleation Assisted Crystallization (NAC) is a much cleaner way to prevent scale and to remove old scale deposits. FILTERSORB SP3 is environment friendly and needs no regeneration.
Non-carbonate Scale Prevention and Corrosion Control

Dosing is to protect Scale and Corrosion caused by PERMANENT Water Hardness. I-SOFT is safe, reliable in performance which is essential for water treatment processes and also to ensure Health protection for operators.

Watch® extensive product portfolio of surfactant, water soluble Instant Chemicals, Oxygen Scavengers, Biocides, Optical-Tracer products and corrosion inhibitors helps our customers to dose successfully with the sustainable formulations.

Boilers and Cooling Towers processing needs excellent hygiene in Food and Beverage processing and ensuring absolute safety for Boilers and Cooling Tower operators. The industry has to warn all consumers from Chemicals of Concern.
Brominated, Chlorinated and Phosphate containing Dosing Products

Many Dosing Chemicals are organohalogenes (compounds in which carbon is bonded to bromine or chlorine). All 22 Chemicals globally banned as Persistent Organic Pollutants under Stockholm Convention.

Why are they A Concern?

Dosing Chemicals known to be harmful can be found at any places. Organohalogen Dosing Chemicals are toxic, lipophilic (fat-loving) and resistant to degeneration. All of these leading to their persistence and bioaccumulation in our bodies and the Environment.

Click for the List of Concerned Chemicals.
First of all there is a lot of money to be saved as water prices increasingly reflect the true cost of water.

Companies will spend more on

- Good Technologies
- Reduced Chemical use

As pollution worsens they need to pay more.

Companies may not be able to use water because of all non-biodegradable chemicals in it.

This list goes on and on by proving again, that safe, clean and accessible water is the building block for growth.
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Function</th>
</tr>
</thead>
</table>
| **ISOFT** | • Municipal, Residential, Industrial, Commercial Water Application  
• Scale & Corrosion inhibitor for all pipes and equipments. |
| **ISOFT DW** | • Drinking Water applications, Food & beverage Industries  
• Scale & Corrosion inhibitor for all pipes. |
| **ISOFT ON** | • Scale & Corrosion inhibitor with **Non-volatile Oxygen scavengers**.  
• FDA approved multi-purpose Boiler Water Treatment. |
| **ISOFT OV** | • Scale & Corrosion inhibitor with **Volatile Oxygen scavengers**.  
• Multi-purpose Boiler (Steam Boilers) Water Treatment. |
| **ISOFT NB** | • Cooling Water, Heat exchangers, Air conditioners  
• Multi-functional Scale and Corrosion inhibitor with Dispersant and **non-oxidizing biocide** for high silica and sulphate content in feed water. |
| **ISOFT OB** | • Cooling Water, Heat exchangers, Air conditioners  
• Most effective non-hazardous **oxidizing biocide** in the market. High Cycle chemistry! |
| **ISOFT RO** | Guaranteed one dosage and all prevention of scaling & fouling, such as silica, sulphate including barium and strontium scales. |
| **ISOFT ROB** | Prevention of silica, sulphate, barium and strontium scaling and Bio-fouling. |