**Technical Data Sheet**

### Food grade multipurpose potable (drinking) water treatment

<table>
<thead>
<tr>
<th>Product Name</th>
<th><strong>INSTANT I-SOFT® DW</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Drinking water treatment and &quot;Potable Water&quot;</td>
</tr>
</tbody>
</table>

**Brief description**

**INSTANT I-SOFT® DW** is a food grade poly-mixture consisting of a mixture of Rest hardness and Anion scale stabilizer including a dispersant and sequestrate. It is specially designed to use in all potable (drinking) water applications. **INSTANT I-SOFT® DW** contains all food grade which are tested and certified by WQA to NSF/ANSI-60.

**Availability**

**INSTANT I-SOFT® DW** is available in high quality aluminum pouches.

For apartment houses, hotels and commercial facilities, it's available in 1 kg, 2 kg and 5 kg vacuum bags.

One 1 kg bag can make 20 liters (5% strength) of best quality scale and corrosion inhibitor with dispersant.

**Description**

It brings high health risks for humans who drink water containing high sulfate levels. **INSTANT I-SOFT® DW** form a corrosion inhibiting layer inside the pipes and all surfaces that comes in contact with the water. Because of its well balanced composition, it inhibits the cathodic corrosion process, leading to a synergistic effect.

**FILTERSORB® SP3 benefits:** Reduction of CO₂ is SP3 treated water significantly affects the chemistry of the treated water. The pH is stabilized to approximately ± 0.1 in water after breakthrough. CO₂’s negative effect renders almost all inhibitors used in water treatment making them ineffective against SO₄ scales.

There is a huge market for **FILTERSORB® SP3** in combination with **INSTANT I-SOFT® DW**.

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Description (continues)

**Anion Scale Inhibition:** Ready to dose I-SOFT® DW acts as "Threshold inhibitor" for sulfate and silica scale, thus stabilizing the anion hardness scale. As a guideline I-SOFT® DW prevents sulfate and silica scale up to 500 mg/l (ppm) in water. The temperature of the water can be up to 90°C.

**Corrosion Inhibition by INSTANT I-SOFT® DW:** Sulfate is one of the major dissolved component of drinking water. High concentration of sulfates in the water we drink can have a Laxative effect. Bacteria which attack and reduce sulfates, form hydrogen sulfide (H2S). Hydrogen sulfide gas can cause the maximum corrosion and to avoid both calcium and magnesium bicarbonates and sulfates and silica anion scales including chlorides corrosion INSTANT I-SOFT® DW is the best effective and economical solution.

### Product application

**Feed rate/Dosing**

- **MINI Watch-DOS:** INSTANT I-SOFT® DW in INSTANT Dosing Bags is intergraded to dose with Watch® MINI Watch-DOS, which is an advanced mechanical pumping system that needs no external power source to function. It can treat a flow rate up to 1 m³/h with ½” connection and up to 2.5 m³/h with ¾” connection. Dosing capacity is 2 mg/l and the concentration of the solution can be adjusted according to the need.

- **Watch-DOS:** Watch-DOS or Intelligent Dosing is the standard model from WATCH® and can treat water flow up to 27 m³/h on a single water line. Various dosing proportion and pulse rate can be adjusted.

- **Dosing:** 100 liters of dosing solution is prepared from a 5 kg bag of INSTANT I-SOFT® DW & fed with a dosing rate of 40 - 80 ml/m³ (proportional to 2 - 3 mg/L) for drinking water. Dosing rate may vary depending upon the water quality.

### Testing and Control

<table>
<thead>
<tr>
<th>Testing</th>
<th>In Drinking Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet pH</td>
<td>6.5 – 8.0</td>
</tr>
<tr>
<td>Before dosing</td>
<td>&gt; 6.5</td>
</tr>
<tr>
<td>After Dosing</td>
<td>&gt; 7.5</td>
</tr>
</tbody>
</table>

### Feeding System

INSTANT I-SOFT® DW can be dosed with MINI Watch-DOS® and standard Watch-DOS® dosing systems from Watch®.

1. For small scale applications refer to MINI Watch-DOS®. (web link)
2. For perfect dilution and dosing refer to Watch-DOS® product Brochure. (web link)

### Scale Questionnaire:

If you would like us to investigate your scale, corrosion and any other water related problems, please complete the questionnaire and submit to www.watchwater.de

### Packaging & Storage

<table>
<thead>
<tr>
<th>Product</th>
<th>Amount per bag</th>
<th>Quantity in a box</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSTANT Watch-SOFT® DW 1 kg bag</td>
<td>1 kg</td>
<td>20</td>
<td>21.6</td>
</tr>
<tr>
<td>INSTANT Watch-SOFT® DW 2 kg bag</td>
<td>2 kg</td>
<td>10</td>
<td>21.6</td>
</tr>
<tr>
<td>INSTANT Watch-SOFT® DW 5 kg bag</td>
<td>5 kg</td>
<td>4</td>
<td>21.5</td>
</tr>
</tbody>
</table>