

## Technical Data Sheet

Food grade multipurpose potable ( drinking ) water treatment

**Product Name** INSTANT I-SOFT® DW

**Application** Drinking water treatment and "Potable Water"

**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 sequester. It is specially designed to use in all potable (drinking) water applications. **INSTANT I-SOFT® DW** contains all food grade 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.

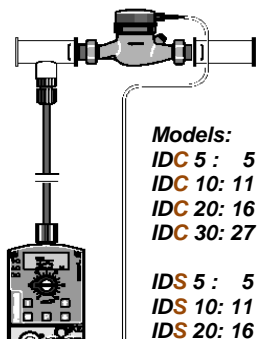
**Description** It brings high health risks for humans who drink water containing high sulfate levels. **INSTANT I-SOFT® DW** form a corrosion inhibiting layer inside the pipes and all surfaces that comes in contact with the water. Because of its well balanced composition, it inhibits the cathodic corrosion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

**FILTERSORB® SP3 benefits:** Reduction of CO<sub>2</sub> is SP3 treated water significantly affects the chemistry of the treated water. The pH is stabilized to approximately ± 0.1 in water after breakthrough. CO<sub>2</sub>'s negative effect renders almost all inhibitors used in water treatment making them ineffective against SO<sub>4</sub> scales. There is a huge market for **FILTERSORB® SP3** in combination with **INSTANT I-SOFT® DW**.

**Models:**  
MIDOS4 : 1 m<sup>3</sup>/h  
MIDOS5 : 1 m<sup>3</sup>/h  
MIDOS6: 2.5 m<sup>3</sup>/h



**MINI Watch-DOS mechanical dosing unit (no electricity is required)**



**Models:**  
IDC 5 : 5 m<sup>3</sup>/h  
IDC 10: 11 m<sup>3</sup>/h  
IDC 20: 16 m<sup>3</sup>/h  
IDC 30: 27 m<sup>3</sup>/h  
  
IDS 5 : 5 m<sup>3</sup>/h  
IDS 10: 11 m<sup>3</sup>/h  
IDS 20: 16 m<sup>3</sup>/h  
IDS 30: 27 m<sup>3</sup>/h

**Watch-DOS proportional dosing unit**

**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<sup>0</sup> C.

**Corrosion Inhibition by INSTANT I-SOFT® DW:** Sulfate is one of the major dissolved component of drinking water. High concentration of sulfate in the water we drink can have a Laxative effect. Bacteria which attack and reduce sulfates, form hydrogen sulfide (H<sub>2</sub>S). 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 m<sup>3</sup>/h with ½" connection and up to 2.5 m<sup>3</sup>/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 m<sup>3</sup>/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/m<sup>3</sup> (proportional to 2 - 3 mg/L) for drinking water. Dosing rate may vary depending upon the water quality.

**Testing and Control**

Testing	In Drinking Water
Inlet pH	6.5 – 8.0
Before dosing	> 6.5
After Dosing	> 7.5

**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](http://www.watchwater.de)**

**Packaging & Storage**

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