

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 NSF 60 certified products.

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.

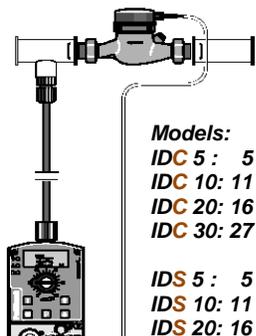
Description It brings high health risks for humans who drink water containing high sulfate levels. **INSTANT I-SOFT® DW** form a corrosion inhibiting layer inside the pipes and all surfaces that comes in contact with the water. Because of its well balanced composition, it inhibits the cathodic corrosion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

Models:
MIDOS4 : 1 m³/h
MIDOS5 : 1 m³/h
MIDOS6: 2.5 m³/h



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



Models:
IDC 5 : 5 m³/h
IDC 10: 11 m³/h
IDC 20: 16 m³/h
IDC 30: 27 m³/h

IDS 5 : 5 m³/h
IDS 10: 11 m³/h
IDS 20: 16 m³/h
IDS 30: 27 m³/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 90⁰ 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 (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

| 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

Packaging & Storage

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