

MANUFACTURED IN GERMANY

ISOFT® – DESCALER

HEAVY-DUTY CLEANING AGENT

Cleaning + Disinfecting Industrial Water Systems
including
Cooling Water and Boiler Water Systems

Features:

- Heavy Duty Industrial Water Treatment Compound
- Recalculating any water system cleaner
- Scale & Corrosion prevention, Dispersant & Cleaner



Method of simultaneous
Cleaning and Disinfection

Operation mode

ON-LINE

or

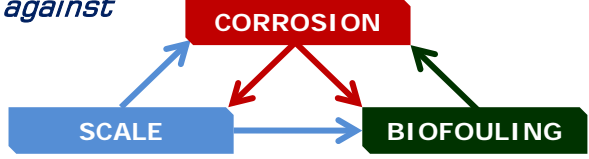
OFF-LINE



- No *Phosphates* or *Phosphonates*
- *Disinfect the system from microbial growth*
- *100% Biodegradable* formulation
- *Prevents bio-film development*

INSTANT Dosing Technology: Future of Waterless Chemicals

Protecting any Water Treatment Systems against



Watch® **INSTANT** Dosing chemicals is the latest achievement in **INSTANT** (Solid) feed water chemistry that not only allows precision dosage in water treatment applications but also provide an Green Eco-Friendly program that minimizes the handling of chemicals, eliminates the need for chemicals storage problems, eliminates spills and liquid container disposal costs and minimizes shipping costs – all of which saves your budget and reduces

your facility carbon foot-print! Using **INSTANT Dosing** & **INSTANT Cleaning** is the way you could help to save this planet from hazardous chemicals. **INSTANT** Dosing is the most innovative way to use-time-proven chemistry.



One bag is equivalent to 4 x 25 liters of dosing chemical (approx 105 kg)



Standard Packaging is 4 x 5 kg bags in a box, which can provide dosing solutions of 400 liters (approx. 420 kg)

Introduction:

I-SOFT® DESCALER removes deposits of scale and destroys microorganisms. The composition of chelating agent, Corrosion inhibitor, biocides and reducing agent including acids can clean variety of industrial and water systems including cooling towers, boilers and heat exchangers water systems. The reaction of Alkaline ISOFT and Acids produces very high amount of acidic reaction and removes strong deposits of Scales and Rusts as well as providing disinfection in the process.



Bio-fouling inside a Cooling Tower

Fouling, Scaling & corrosion can occur even with the best water treatment using **Phosphates, Phosphonates** or other methods currently available. Fouling is defined as “Deposition of any organic or inorganic material on a surface”. If these industrial water systems are not periodically cleaned then they will become heavily fouled. **Phosphates, Phosphonates** means dosing nutrients and offer protection for the growth of bio-life and bio-films which can accelerate **SCALE, CORROSION** and many other fouling processes.

Not only these **Phosphates, Phosphonates** contribute to grow bio-films which reduces the system efficiencies but they also provide an excellent environment for microbial proliferation that can include Legionella bacteria. It is therefore very important to **STOP DOSING PHOSPHATES and PHOSPHONATES** to the greatest extent possible to minimize the health-related risk associated with **Legionella** and also **Eutrophication** and many other water-borne pathogens.

Tribasic acid (only in the world)

I-SOFT®-DESCALER is the only acid in the world that dissociates in **three steps**. The acid dissociation constants competes for metal ions with other Anions such as hydroxides, sulfates, sulfide, carbonates and oxalate that

form sparingly soluble metal salts. The result is that the salts cannot precipitate and re-dissolve in any ON-LINE Cleaning Application and OFF-LINE Cleaning Application as well.

ONE

The **I-SOFT®-DESCALER** reduce the concentration of free metals ions in any aqueous solution in any water treatment system

TWO

The **I-SOFT®-DESCALER** is working as the water softener without adding phosphates or harmful sodium. **I-SOFT®-DESCALER** soften the scale and re-dissolve even stubborn scale.

THREE

The **I-SOFT®-DESCALER** modifies the reactivity metal ions in water.

I-SOFT®-DESCALER has excellent chemical stability under a wide range of conditions and this ensures that it remains effective over long periods. It has minimum 2 years of shelf-life.

Direction of use:

The quantity of **I-SOFT®-DESCALER** that is required to remove or sequester a given concentration of Calcium, Iron or any ions involved in Organic scale, Inorganic scale – depends on the strength of **I-SOFT®-DESCALER**.

I-SOFT®-DESCALER is slug/hand dosed to the fouled, Scaled or Absolutely newly constructed system at 10 liters per 10,000 liters of system for "ONLINE" cleanup.

- The pH should be maintained at 7.5 all the time.
- System should be placed into normal operation or circulation for cleanup period.
- Closed loop systems should be checked weekly.
- Flush systems with "ONLINE BLEED" when pH reaches 8.5
- Repeat this procedure until the system water remains clean for one week of system operation with of **I-SOFT®-DESCALER** applied.
- Cooling towers should be drained and flushed after recirculation as VISUAL INSPECTION-DICTATES. Bleed should be reopened after the first few days of system recirculation. Thereafter, a continuous dosing/injection or if needed slug additions must be made for as long as two to three months to look the system as Brand New. Periodic flushing of the system to remove sludge and loosened contamination will be necessary.

Dilution:

1:19 = 20 kg/kg **I-SOFT®-DESCALER** (5% Strength)

Handling & Safety:

The **I-SOFT®-DESCALER** does not exert and harmful effects on health, provided that they are used properly, due attention is given to the preventions necessary for handling chemicals.

Packaging:

- 1 kg Pouch – 20 x 1 kg Pouches in a box
 - 5 kg Pouch – 4 x 5 kg Pouches in a box
 - 60 kg Drums
- Minimum Order Quantity 20 kg (a box)

Storage:

I-SOFT®-DESCALER is hygroscopic and it should be kept in tightly sealed containers.

✓ **I-SOFT®-DESCALER** is classified as "readily biodegradable".

Manufactured by:



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