



# HIGH-PERFORMANCE SCALE PREVENTION MEDIA [ SOFTENER ALTERNATIVE ]

**NO WASTE • NO BACKWASHING • NO ELECTRICITY • NO CHEMICALS**

## EFFICIENCY & ECONOMY

### MEDIA VOLUME REQUIRED

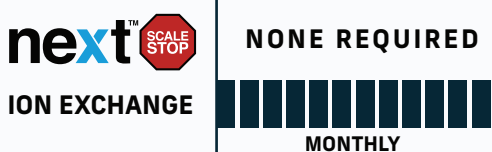


### BACKWASH VOLUME

[GAL/BACKWASH/FT<sup>3</sup>]



### SERVICE FREQUENCY



### REGENERANT VOLUME

[PER REGENERATION]



## INTRODUCTION

Next-ScaleStop is the embodiment of a new technology, Template Assisted Crystallization® (TAC®). Near the surface of small specially treated polymer spheres, newly formed micro-crystals of dissolved CaCO<sub>3</sub> become preferential Templates or Sites for additional hardness ions as they precipitate. The crystals are relatively insoluble, effectively isolating the CaCO<sub>3</sub> from the water chemistry and anything the water contacts such as pipes or fixtures.

## FEATURES

- Extremely Efficient
  - 5 Second Contact Time Regardless Of Hardness Level
  - Conventional Ion Exchange Resin Requires 90 Seconds
- No Salt Or Other Chemical Regenerants Required
- No Backwash Waste
- Can Be Used In Areas Where Softeners Are Banned
  - Protects The Environment And Reduces Water Usage
- Long Lasting Media (Not Consumed By The Reactions)
- No Control Valve Or Electricity Required
- Usable In Conventional Mineral Tanks Or POU Cartridge Form
- Media Operates In Upflow Condition

## APPLICATIONS

Next-ScaleStop has proven itself in a variety of applications as an alternative to ion exchange softening or other conventional water treatment methods. The maintenance-free characteristics make it especially suited for foodservice and commercial applications where equipment maintenance is often overlooked. From residential to commercial to industrial, Next-ScaleStop delivers extraordinary value and performance.



### FOODSERVICE

- Coffee & Tea Brewers
- Espresso Machines
- Boiler-based Steamers
- Proofer Ovens
- Steam Tables
- Mist Cooling Systems



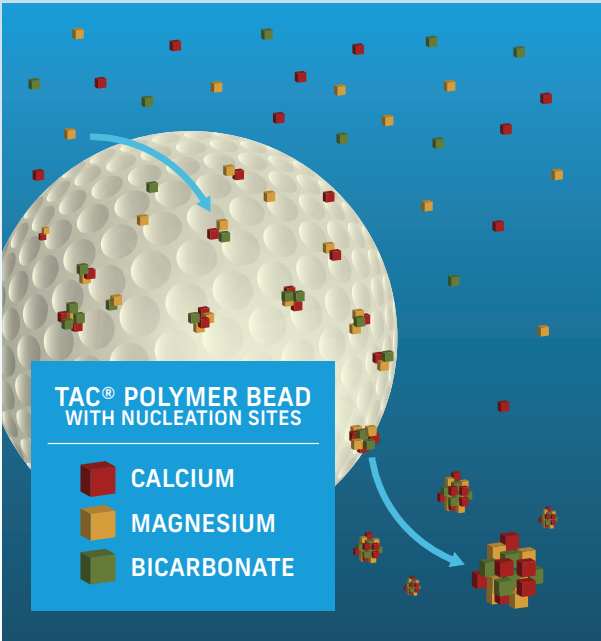
### COMMERCIAL & INDUSTRIAL

- Car Washes
- Hotels
- Boilers
- Evaporating Cooling



### RESIDENTIAL

- Water Heater
- Dishwasher
- Laundry
- Bath & Shower
- Plumbing



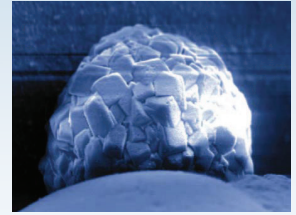
**TAC® POLYMER BEAD  
WITH NUCLEATION SITES**

- CALCIUM
- MAGNESIUM
- BICARBONATE

## HOW IT WORKS

### CRYSTAL FORMATION

The surface of small polymer beads attract scale-causing ions, creating micro-crystals that become preferential templates for other ions to build on.



### CRYSTAL RELEASE

Once the crystals grow to a certain size they continue to flow through the pipeline. The crystals in solution keep the hardness out of the water so that it can't form scale or interfere with soap.

This process inactivates the minerals, causing them to flow right through pipes and down the drain, completely unnoticeable without specialized technology.

## PRODUCT SPECIFICATIONS

### PHYSICAL PROPERTIES


- Composition : Specially Treated Polymer
- Size : 0.3-1 mm (>90% approx. 20x50 Mesh)
- Color : Off-White / Pale Yellow-Beige
- Bulk Density : Approx. 1.71 lbs/L (~776 g/L)  
- Range : 1.68-1.74 lbs/L (763-789 g/L)
- Packaging : 180 Liter Drum (~308 ± 5 lbs or ~140 ± 2.3 kg)
- Uniform Coefficient : 1.8 (max)
- Specific Gravity : 1.5 gm/cc
- Moisture Content : ~10-20%

### WATER CHEMISTRY & LIMITATIONS

- pH : 6.5 to 8.5
- Hardness, Max. : 75 Grains (1300 ppm CaCO<sub>3</sub>)
- Temperature : 41 to 140 °F (5 to 60 °C)
- Chlorine : <3 ppm
- Iron, Ferrous : ≤0.3 mg/L
- Manganese : ≤0.05 mg/L
- Copper : ≤1.3 mg/L
- Oil & Polyphosphates : Remove Prior To Next-ScaleStop Use
- H<sub>2</sub>S : Must Be Removed Prior To Next-ScaleStop Use

### OPERATING CONDITIONS

- Service Flow : 4 gpm/liter Of Media (Limited By Bed Expansion)
- Bed Depth : 4-10 Inches Typical (Depending On Flow Rate)
- Freeboard : 200% Of Bed Depth (Minimum 20")
- Can Be Used In Continuous Or Intermittent Operation (Upflow Mode), No Backwash Required
- On initial use, it is good practice to ensure trapped air is bled and the media is wetted slowly.



Next-ScaleStop is tested & certified by the Water Quality Association to NSF/ANSI/CAN Standard 61, which now includes the NSF/ANSI/CAN 372 Lead Free requirements.



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