

REVERSE OSMOSIS ANTISCALANT

# Vitec™ 7000

Antiscalant / Dispersant

## APPLICATION

Vitec™ 7000 is a multicomponent liquid antiscalant and dispersant that provides a high level of sulfate inhibition and allows increased reverse osmosis (RO) system recoveries in challenging waters. It prevents calcium sulfate ( $\text{CaSO}_4$ ) scale precipitation, allowing up to 6 times saturation. The primary application of this product is brackish water or wastewater rich in sulfate, which requires a specialty product for economic membrane system recovery. It is successfully applied in both industrial and potable applications. Vitec 7000 is NSF certified.

## INJECTING

Best results are achieved when Vitec 7000 is injected downstream of multimedia filters and upstream of cartridge filters.

## DOSING

A typical Vitec 7000 dose ranges from 2 to 5 mg/l. A site-specific dose can be determined using the Avista™ Advisor™Ci software program.

## DILUTION

Vitec 7000 is formulated to be injected neat. However, if dilution is required, use deionized water or RO permeate. If neither of these is available, soft water may be substituted. The dilution for Vitec 7000 should not result in a solution strength of less than 10%. This guideline protects the effectiveness of the internal bacteriostat, which inhibits bacterial growth in the product packaging and feed tank.

## CHEMICAL AND PHYSICAL PROPERTIES

CHARACTERISTICS	DATA
Appearance	Clear to amber liquid
pH (as supplied)	5.0 – 7.0
Specific gravity (@25°C)	1.15 – 1.25

## PERFORMANCE BENEFITS

- Powerful against these and other types of scale:

Barium sulfate	$\text{BaSO}_4$
Calcium sulfate	$\text{CaSO}_4$
Strontium sulfate	$\text{SrSO}_4$
Calcium carbonate	$\text{CaCO}_3$

- Formulated with a crystal modification property that distorts inorganic salt crystal growth to reduce system scaling.
- Compatible with polyamide membranes from all major manufacturers.
- Highly effective in a wide variety of feedwaters and pH ranges.
- Compatible with Avista coagulants.

## PACKAGING

Standard regional pack sizes are listed below. Information on bulk delivery options is available on request.

PACKAGING FORMAT	NORTH AMERICA	SOUTH AMERICA	ASIA
Pail	45 lb	20 kg	20 kg
Drum	500 lb	230 kg	220 kg
IBC tote	2,500 lb	1,100 kg	1,000 kg



CERTIFIED TO  
NSF/ANSI 60

Please consult your sales representative for further technical or logistical details, and always review the SDS before use to ensure suitable safety precautions are followed.

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**GLOBAL HEADQUARTERS**

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