

Performance:

Vitec® 3000 antiscalant offers a variety of critical performance and application benefits:

- Powerful inhibitor against a variety of carbonate and sulfate scale:

CaCO ₃	CCPP>900 (LSI>2.5)
CaSO ₄	3.5xKsp
BaSO ₄	105 x Ksp
SrSO ₄	20 x Ksp
CaF	1000 x Ksp
SiO ₂	120ppm

- Highly effective in a wide range of feedwater types and pH ranges.
- Crystal modification property distorts inorganic salt crystal growth, reducing system fouling.
- Compatible with polyelectrolyte coagulants
- Threshold scale inhibition at low dosage rates allows economical system operation.

Vitec® 3000 is a proprietary liquid antiscalant/dispersant designed to inhibit scale and disperse colloidal particles in cellulose acetate and polyamide membrane separation systems.

This formulation is compatible with organic coagulants which may be indirectly present in municipal feed waters or directly present as a result of coagulation or flocculation treatments upstream of the reverse osmosis system.

Vitec® 3000 can be injected neat or diluted and can be used in a wide array of feedwater sources. It has been certified by the National Sanitation Foundation (NSF) and approved by the UK Secretary of State for use in systems producing drinking water.

Application:

Optimum Vitec® 3000 performance is achieved when the chemical is injected downstream of multimedia filters and upstream of cartridge filters.

Dosing Guidelines:

The typical dosage range is between 2 to 5 ppm. A site-specific dose can be determined using the **Avista Advisor** computer program.

Like any injected chemical, over or underdosing may cause unnecessary membrane system fouling. Please contact the Avista customer service department for customized dosing instructions.

Dilution:

This product is formulated to be injected neat. However, if a dilution is required, use demineralized or RO permeate water. If neither of these is available, softened water may be substituted. The dilution for Vitec 3000 should not exceed 1% by weight and DI quality water must be used for any dilutions below 10%. This guideline protects the effectiveness of the internal bacteriostat which inhibits bacterial growth in the drum and feed tank.

Packaging and Storage:

Standard regional pack sizes are listed below and custom packaging can be provided worldwide. Information on drumless or bulk tanker delivery is available on request.

Specifications	
Appearance:	Light amber liquid
pH (as supplied):	10.0 –11.8
Specific Gravity@20°C:	1.2 - 1.3

Packaging Formats	Americas	EMEA
Pails	45 lbs	23 kg
Drums	500 lbs	230 kg
IBC's (totes)	2500 lbs	1100 kg



DRINKING WATER TREATMENT ADDITIVES CLASSIFIED BY NSF INTERNATIONAL TO NSF/ANSI 60 AS STANDARD DRINKING WATER TREATMENT CHEMICAL FOR USE IN REVERSE OSMOSIS SYSTEMS AT A MAXIMUM LEVEL OF 7 mg/l

