Vitec® 3000

Antiscalant/Dispersant Product Datasheet

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 thinfilm membrane separation systems. The formulation has been certified by the National Sanitation Foundation (NSF) under ANSI/NSF Standard 60 for use in producing potable water.

This formulation is compatible with organic coagulants. Coagulants 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.

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. Please contact the Avista customer service department for customized dosing instructions.

Dilution:

Vitec® 3000 should be diluted with demineralized water or RO permeate. If neither of these water sources is available, softened water may be substituted. The dilution for Vitec® 3000 should not exceed 1% by weight (dilutions below 10% by weight must use DI quality water). This guideline will protect the effectiveness of the internal bacteriostat, which inhibits bacterial growth within the drum and feed tank.

Packaging and Storage:

Standard regional pack sizes are listed below. Custom packaging can be provided worldwide to meet customer needs. Information on drumless or bulk tanker delivery is available on request.

NSF Certified to NSF/ANSI 60

DRINKING WATER TREATMENT ADDITIVES CLASSIFIED BY NSF INTERNATIONAL TO NSF/ANSI 60 ON SEPTEMBER 2004 AS STANDARD DRINKING WATER TREATMENT CHEMICAL FOR USE IN REVERSE OSMOSIS SYSTEMS AT A MAXIMUM LEVEL OF 7 mg/l

Specifications	
Appearance:	Light amber liquid
pH (as supplied):	9.8 –11.8
Specific Gravity@20°C:	1.25± 0.05

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

10/08

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