

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 ≤ 3.0) |
| CaSO ₄ | 3.5xKsp |
| BaSO ₄ | 105 x Ksp |
| SrSO ₄ | 20 x Ksp |
| CaF ₂ | 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. It can be injected neat or diluted and used in a wide array of feedwater sources

Vitec 3000 has been approved for use in systems producing drinking water by the UK Drinking Water Inspectorate and by NSF International under NSF/ANSI Standard 60.

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 result in a solution strength of less than 1% 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 ± 0.05 |

| 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

