



Vitec™

Avista Technologies formulates a variety of liquid antiscalant/dispersants for membrane separation systems. These formulations are designed to inhibit carbonate, sulfate, and calcium fluoride scales while also dispersing colloidal particles. These properties help extend RO system run times, reduce cleaning frequencies and increase the productive life of the RO elements. The application of Vitec may also eliminate the need for acid addition while maintaining desired recovery rates.

The Vitec 1000, 3000, and 4000 are all certified under ANSI/NSF 60 for use in systems producing potable water. While performance characteristics vary with each formulation, the general scale control ranges that can be achieved with the appropriate Vitec formulations are:

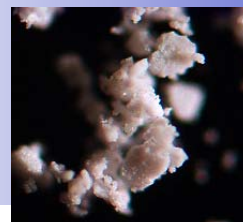
Calcium Carbonate (CaCO_3)
Langlier Saturation Index (LSI) 2.5 to > 3.0

Calcium Sulfate (CaSO_4)
3.5 – 6 times saturation

Barium Sulfate (BaSO_4)
105 times saturation

Strontium Sulfate (SrSO_4)
20-35 times saturation

Calcium Fluoride (CaF)
1000 times saturation



Vitec is available in 45-pound pails, 500-pound drums, and 2500-pound totebins. Bulk deliveries are also available.

Feedwater Source: Low iron well water			Vitec Scale Inhibitor/Dispersant Selection Guide							
Feedwater Source: Well, surface, or municipal			NSF or UL Certified for use in drinking water systems	Scale Inhibitor				Colloid and Silt Dispersant	Coagulant Compatible, Colloidal Silica Dispersant	Silica Dispersant
Product Name		Calcium Carbonate		Calcium Sulfate	Strontiu m Sulfate	Barium Sulfate				
Vitec™ 1000		X	X	X	X	X	X			
Vitec™ 2000	X			X	X	X	X	X		
Vitec™ 3000	X		X	X	X	X	X	X	X	X*
Vitec™ 4000	X		X	X	X	X	X	X	X	X**
Vitec™ 7000	X			X	X***	X	X	X	X	

* Silica dispersant up to 140 ppm SiO_2 in the concentrate stream.

** Silica dispersant up to 250 ppm SiO_2 in the concentrate stream.

*** Up to 6 times saturation