

Antiscalant:

- ◆ **Vitecā 1000** is a liquid antiscalant designed to inhibit scale in cellulose acetate and thinfilm membrane separation systems. This formulation contains a 35% by weight solution of polyacrylic acid that has a tight molecular weight range of 2000. Vitec™ 1000 can be injected neat or diluted.

Antiscalants/Dispersants:

- ◆ **Vitecā 2000** is a proprietary liquid antiscalant designed to inhibit scale and disperse colloidal particles in cellulose acetate and thinfilm membrane separation systems.
- ◆ **Vitecā 3000** is a proprietary liquid antiscalant/dispersant designed to inhibit scale and disperse colloidal silica and other particles in cellulose acetate and thinfilm membrane separation systems. The unique quality of this formulation is its compatibility with organic coagulants, which may be present indirectly in municipal feed waters or directly as a result of coagulation or flocculation treatments upstream of the reverse osmosis system.

Antiscalant/Dispersant and Silica Inhibitor:

- ◆ **Vitecā 4000** is a proprietary liquid antiscalant designed to inhibit silica and other scales and disperse colloidal particles in cellulose acetate and thinfilm membrane separation systems. This formulation is unique in that it inhibits silica scaling at higher concentrations than typical antiscalants. This feature may allow increased RO system recoveries in feedwaters containing high levels of silica. It retains its performance even in RO concentrate streams containing up to 4 ppm of ferrous iron.

Feedwater Source: Low iron well water		Scale Inhibitor/Dispersant Selection							
Feedwater Source: Well, surface, or municipal waters									
Product Name		Scale Inhibitor				Colloid and Silt Dispersant	Coagulant Compatible Collidal Silica Dispersant	Silica Dispersant	
		Calcium Carbonate	Calcium Sulfate	Strontium Sulfate	Barium Sulfate				
Vitec 1000		✓	✓	✓	✓				
Vitec 2000	✓		✓	✓	✓	✓			
Vitec 3000	✓		✓	✓	✓	✓	✓		
Vitec 4000	✓		✓	✓	✓	✓	✓	✓	