

Vitec® antiscalants have earned a solid reputation over the years for their effectiveness in a wide array of applications. Their use has been approved by both regulatory agencies and industry leaders including:

- Drinking water authorities:
 - UK Drinking Water Inspectorate
 - NSF International
- Major membrane manufacturers including: FilmTec Corporation, Hydranautics, and Toray.
- Multi-national end-user corporations including: beverage, automotive, semiconductor, electronics, mining, and power generation.

Several of the formulations are designed to address specific scales and allow even higher saturation limits. This data sheet outlines Vitec 7000, a blended liquid which offers a higher level of sulfate inhibition for brackish and industrial applications. Vitec 7000 is used when >3 Ksp/IP or <7 x Ksp/IP sulfate is expected in the RO concentrate stream. It's ability to inhibit sulfate scale at higher concentrations allows increased RO system recovery and, concurrently, strong economic benefits.

The following table is a short list of references, intended to illustrate the range of Vitec 7000 applications:

Water Source	Application	Comments
Borehole	Potable water	
	Food Production	4.3 X Sulfate saturation
	Industrial	4 X Saturation
	Agriculture	Volcanic region with high salinity and high sulfate
Wastewater Reuse	Industrial	Zero Liquid Discharge application, challenging multi-step process
Mining Effluent	Reuse	5 X Sulfate saturation
	Reuse	6 X Sulfate saturation
Copper Mine Effluent		4.8 to 5.2 X Sulfate saturation
Gold Mining Effluent	Tail Water Treatment	85% recovery and 6 X saturation
Saline Aquifer	Potable Water	High brackish borehole application with high sulfate

