

REVERSE OSMOSIS ANTISCALANT

Vitec™ 4000

Antiscalant Dispersant

APPLICATION

Vitec™ 4000 is a liquid antiscalant and dispersant that offers excellent silica scale inhibition and allows increased system recoveries in high silica feedwaters. Vitec 4000 prevents silica scale up to 2.8 times saturation, without the addition of acid. It also prevents clay formation (aluminum silicates) in the second stage of systems as well as calcium phosphate. Vitec 4000 is effective in water containing high metals such as iron, aluminum, and manganese. It is highly successful in many different industries and applications including, but not limited to, mining, well water, high recovery applications, wastewater, and in regions with high volcanic silica. Vitec 4000 is NSF approved.

INJECTING

Best results are achieved when Vitec 4000 is injected downstream of multimedia filters and upstream of cartridge filters.

DOSING

A typical Vitec 4000 dose ranges from 2 to 5 mg/l. A site-specific dose can be determined using the Avista™ Advisor™Ci software program.

DILUTION

Vitec 4000 is formulated to be injected neat. However, if dilution is required, use deionized water or reverse osmosis (RO) permeate. If neither of these is available, softened water may be substituted. The dilution for Vitec 4000 should not result in a solution strength of less than 10%. This guideline protects the effectiveness of the internal bacteriostat, which inhibits bacterial growth in the product packaging and feed tank.

CHEMICAL AND PHYSICAL PROPERTIES

CHARACTERISTICS	DATA
Appearance	Clear to amber liquid
pH (as supplied)	4.5 – 6.5
Specific gravity (@25°C)	1.1 – 1.2

PERFORMANCE BENEFITS

- Powerful against these and other types of scale:

Silica	SiO ₂
Aluminum silicates	Al ₂ SiO ₅
Calcium carbonate	CaCO ₃
Calcium phosphate	CaPO ₄

- Effective antiscalant to inhibit silica scale, aluminum silicate scaling, and calcium phosphate.
- Effective on waters containing high metals such as iron, aluminum, and manganese.
- Compatible with polyamide membranes from all major manufacturers.
- Highly effective in a wide variety of feedwaters and pH ranges.

PACKAGING AND STORAGE

Standard regional pack sizes are listed below. Information on drumless or bulk tanker delivery is available on request.

PACKAGING FORMAT	AMERICAS	ASIA	EMEA
Pail	45 lb	20 kg	20 kg
Drum	500 lb	230 kg	230 kg
IBC tote	2500 lb	1100 kg	1100 kg



CERTIFIED TO
NSF/ANSI 60

Please consult your sales representative for further technical or logistical details, and always review the SDS before use to ensure suitable safety precautions are followed.

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