



AQUAFIX Inc.

Innovations in
wastewater treatment.

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TECHNICAL UPDATE

VITASTIM SURFACTANTS

Surfactants can be known as NPE's (Nonyphenol Ethoxylates) to chemists. Surfactants are **soaps** and **cleaners**. Almost all surfactants are made from grease in some way. WWTP are dumped with these from factories and so on. We selected the highly specialized pseudomonas bacteria cultures in this blend for their ability to degrade surfactants and emulsions.

A 5X blend and an excellent product for industrial or municipal wastewater plants that receives heavy amounts of surfactants or emulsions that can affect settling and foam.

Surfactants cause foaming, cloudy effluent, and shut down nitrification.

Surfactants can be slow and difficult to break down. This speeds up the process when temp is above 64°F. These molecules are resistant to breaking down, the customer needs to know it will take at least 30 days to see improvement.





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DOSE RATES

VitaStim Surfactants in WWTP		
Flow Rate	Initial Dose Once per day 30 Days	Maintenance Dose Once per day 30 Days
100 TGD	0.5#	0.5# every other day
200 TGD	1#	0.5#
300 TGD	1.5#	0.5#
400 TGD	2#	1#
500 TGD	2.5#	1#
600 TGD	3#	1.5#
700 TGD	3.5#	1.5#
800 TGD	4#	2#
900 TGD	4.5#	2#
1 MGD	5#	2.5#
If under 64°F we use VS Polar and Foam Buster.		
*If chemical plant – ½ dose with ½ dose of VS Low F:M		

VS 4001 Surfactants in Emergency, getting hit or dumped on			
Flow Rate	First 10 Days	Second 20 Days	Last 30 Days
100 TGD	1# a day	0.5# a day	0.5# every other day
500 TGD	5# a day	2.5# a day	1# a day
1 MGD	10# a day	5# a day	2# a day
*If chemical plant – ½ dose with ½ dose of VS Low F:M			