



BIOTIFX®

WASTEWATER TREATMENT

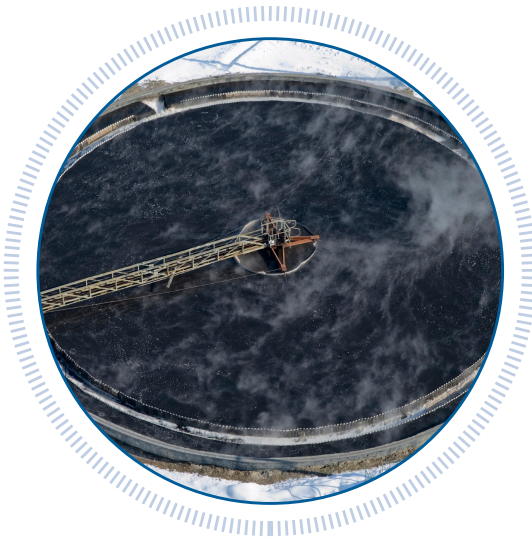
FRZ

Biotifx® FRZ is a specialized product for use when water temperatures drop under 59°F / 15°C. Biotifx® FRZ alleviates challenges associated with FOG, sludge, odor and hydrogen sulfide (H₂S); allowing for efficient system performance during the winter months.



This powder product is formulated with a blend of *Bacillus* strains scientifically selected for their ability to degrade a broad range of organic material at cold temperatures. The formulation is enhanced with the addition of a proprietary blend of micronutrients and biostimulants to heighten performance of the microbial community.

	CHALLENGE	SOLUTION
Cold Temperatures	When temperature drops, microbial activity decreases and treatment becomes less effective.	The <i>Bacillus</i> strains within Biotifx® FRZ were selected for their heightened ability to perform in cold temperatures. This allows for continued and effective treatment during the winter months.
Organic Sludge Reduction	With decreased microbial activity, organic solids can accumulate faster when temperatures are low. This accumulation reduces capacity and is expensive to remove.	Biotifx® FRZ digests organic material at cold temperatures. By maintaining high digestion of solids, facilities can reduce hauling costs.
Odor Control	Neighbor relations, lawsuits, and potential fines are all common challenges associated with odors. Common odor control treatment requires costly chemicals, specialized equipment and additional labor.	Biotifx® FRZ prevents the formation of biological acids and other odorous compounds. As a result, reducing the potential for complaints and lawsuits without costly chemicals or equipment.
Hydrogen Sulfide (H₂S)	The production of hydrogen sulfide (H ₂ S) can lead to complaints, serious safety risks, and corrosion of mechanical and electrical components. Conventional treatment is non-preventative, expensive, and capital intensive.	Bioaugmentation inhibits the bacteria responsible for the formation of H ₂ S. Treatment with Biotifx® FRZ reduces and/or eliminates complaints, corrosion, and safety risks. It also prevents the need for conventional treatment.



Dosing

For specific dosing recommendations, speak with your service provider and/or review the system application sheet. The typical dose is between 0.5-5 mg/L of system flow, depending on system design and loading method.

For certain applications, the product should be hydrated in potable water at a ratio of 1kg/2.5 gallons of water (1:10 ratio) for 1-8 hours and then poured into the designated dosing location. If the situation does not allow for hydration, the product can be applied directly.

Applications

- Lagoons
- Grease Interceptors
- Aeration Basins
- Lift Stations
- Force Mains

Case Study Data

For any organism, including bacteria, there is a temperature zone where life and activity occurs. Temperatures that are too high or too low for a given organism can result in reduced activity or death.

Depending on the strain of bacteria, different temperatures are required in order to perform and survive. Biotifx® FRZ is formulated with strains specifically selected for their heightened ability to perform in low temperatures.

Microbial Activity Test at 39°F (4°C)

