

Bioclean STP

Bioaugmentation of Anaerobic Treatment -
Sludge Reduction, Odor Reduction, COD, BOD,
TSS, TN Removal

The cost-effective optimization of slurry & sludge storage tanks,
anaerobic wastewater treatment ponds & lagoons



MalaTECH
water

Benefits of Bioclean STP bioaugmentation:

- **Long-term & cost-efficient odor control** for anaerobic ponds & tanks
- **Cost savings, quick ROI on sludge volume reduction** for sludge & slurry storage/treatment applications
- **Improved COD, BOD, TSS, TN removal** in anaerobic wastewater treatment ponds
- **Improved resistance** of the anaerobic biology in anaerobic tanks & ponds against rapid changes in environmental conditions, inhibitory or toxic shocks
- **100% all-natural & biodegradable, non-GMO, non-toxic, non-hazardous product with long shelf life, Works effectively without introducing environmentally hazardous chemicals**



Product description:

Bioclean STP is an all-natural product made by fermentation technology. The product is a complex of carefully selected facultative & obligate anaerobic microbes for high hydraulic residence time anaerobic applications. By the constant dosage of Bioclean STP we provide the presence of specific microbes in the anaerobic system. These microbes **hydrolyse the organic substances faster and to a greater extent** than those, which, due to the ideal conditions for their proliferation, are already present in the tank or lagoon. Bioclean STP microbes have faster, and more effective metabolic rate to improve the pace of all the 4 major steps of anaerobic digestion.

Anaerobic pond/tank bioaugmentation with Bioclean STP may result one of the best return of investment timeframe for you. High hydraulic residence time enables a very low specific dosage for Bioclean STP compared to the target & benefits achieved.

Bioclean STP bacteria **boost anaerobic processes** in tanks or ponds. You can expect **COD/BOD/TSS removal** to be running at a much higher rate resulting way lower effluent parameters. **Total Nitrogen removal capacity** of the anaerobic system can grow up to 30% more than the system was able to achieve with its generic bacteria. **Odor control** is done quick & long-term by Bioclean STP. Our bacteria alter the anaerobic pathway, and significantly reduce the formation of all reductive gas types like **Hydrogen Sulfide, Mercaptans, and Ammonia**.

Fields of application:

- Industrial, agricultural, or municipal anaerobic wastewater treatment ponds
- Sludge storage tanks, ponds, lagoons
- Slurry storage tanks, ponds, lagoons
- Leachate holding tanks/ponds



IMPORTANT INFORMATION:

Recommended daily dosages are guidelines only, for exact calculations and tech support do not hesitate to contact us!

Application of Bioclean STP:

Premix Bioclean STP with water, use an adequate capacity pump with hoses and sprayer head, and spray out the aqueous solution of the product directly on the surface of the pond or tank filled with the raw material covering the surface as evenly as possible.

Dosage for shock treatment: 20-60 ppm depending on overall net volume of liquid & solid waste in the pond or tank, e.g. for 2 000 m³ net volume of sludge or slurry, and water 40-120 kg of Bioclean STP is recommended for the first treatment depending on the nature, and concentration of the solid content.

If the daily inlet amount is very low compared to storage volume (hydraulic retention time is high), Bioclean STP treatments are recommended to be done periodically (1-4 months between treatments) treating the tank/pond itself like described above. Second and ongoing treatments can be done with 30-40% less Bioclean STP (etc. 14-40 ppm).

If the inlet amount is mentionable, and hydraulic retention time is below 90 days, after doing the shock treatment of your pond or tank, you can dose Bioclean STP aqueous solution to the inlet on a continuous basis by a metering pump. Maintenance dosage range is 0.5-20 ppm based on inlet flowrate. Please never hesitate to contact us about your project, so that we can help you calculating exact treatment method, and dosed amounts for reaching the desired results.

Packaging information:

The product is available in 1 kg double-wall bags, 20 bags make up 1 carton box which is the lowest unit for ordering.

Storage information & shelf life:

Keep the product in a cool and dry place below 30 Celsius. Avoid exposure to direct sunlight. Shelf life is 5 years from manufacturing date.