BCP22™

High-Fat Wastewater Treatment

BCP22™ is a microbial bioaugmentation product developed for wastewater and effluent streams with high fats, oils, and grease (FOG) loading. Its specialized blend of aerobic and facultative anaerobic microorganisms supports biological degradation of lipids and associated organic residues commonly encountered in food-processing, commercial, municipal, and industrial wastewater.

BCP22™ helps reduce grease accumulation, scum formation, odor, and organic loading while supporting BOD reduction, sludge settling, and overall biological treatment performance. It is particularly suited for wastewater systems experiencing continuous or intermittent FOG loading, treatment upsets, or reduced biological efficiency.

Features & Benefits

- Supports biological degradation of fats, oils, and grease
- Helps reduce BOD associated with fatty wastewater
- Helps reduce grease and scum accumulation
- Supports improved effluent quality
- Helps reduce odors associated with fatty waste
- Supports sludge settling and solids management
- Helps reduce excessive foam formation
- Supports treatment performance during FOG overload conditions
- Helps maintain biological treatment efficiency

Specifications

Color & Appearance	Beige powder with white granules
pH	6.0–7.5
Bacteria Count	5×10^9 CFU/g
Shelf Life	2 years

Storage

Store in a cool, dry location. Keep containers tightly closed, before and after opening, to prevent moisture absorption and exposure to direct sunlight. Please follow the recommendations and use the product before the best before date. Contact Bionetix® with questions. Avoid inhalation, eye contact, and prolonged skin contact. Wash hands thoroughly after handling.



Typical Applications

- Food-processing wastewater treatment plants
- Meat and poultry processing wastewater
- Dairy-processing wastewater
- Industrial wastewater with elevated FOG loading
- Municipal wastewater receiving commercial FOG discharges
- Activated sludge systems
- Aerated lagoons
- Facultative lagoons
- Equalization and holding tanks receiving fatty wastewater
- Large commercial grease-management systems
- Lift stations receiving high FOG loads
- Treatment systems recovering from FOG overload events

Directions for Use

DOSAGE AND TREATMENT PLAN

For treatment systems of 100 m^3 or greater, calculate the recommended product dosage and generate a three-month treatment plan using the Bionetix® Wastewater Dosing Calculator: https://calculator.bionetix-international.com/

APPLICATION METHOD

Apply BCP22™ directly to the wastewater treatment system, either as a powder or pre-dispersed in water to improve distribution. Introduce the product at a location that ensures adequate contact with fats, oils, grease (FOG), and the active biological treatment zones.

For systems experiencing excessive grease accumulation, prioritize application near the principal FOG loading points or areas where grease deposits develop.

Maintain adequate mixing, aeration where applicable, and sufficient retention time to support biological degradation. Avoid locations with insufficient hydraulic contact or excessive exposure to inhibitory cleaning chemicals.

APPLICATION BY TREATMENT SYSTEM

Activated Sludge Systems and Biological Reactors: Apply at the influent to the biological stage or directly into the aeration basin at a well-mixed point to support FOG degradation and reduce grease accumulation.

Food Processing Wastewater Systems: Apply at the wastewater collection or equalization stage, or at the inlet to the biological treatment system. Prioritize areas receiving concentrated FOG loads from meat processing, dairy, and other food production operations.

Grease Traps and Grease Interceptors: Apply near the inlet or at a location that promotes contact with accumulated grease and incoming wastewater. Ensure sufficient retention time for biological activity and maintain regular grease removal practices.

Lift Stations and Pumping Stations: Apply at the wet well or upstream collection point to promote contact with grease deposits and reduce accumulation within the pumping system.

Sewer Lines and Wastewater Collection Systems: Introduce BCP22™ at an accessible upstream application point, allowing wastewater flow to distribute the product through grease-affected sections.

Aerated Lagoons: Apply near the influent, aeration equipment, or active circulation zones where FOG-rich wastewater enters the treatment system.

Facultative Lagoons: Distribute the dosage among multiple application points, prioritizing areas receiving the principal organic and grease loads.

SYSTEMS BELOW 100 m^3

For treatment systems below 100 m^3, dosing recommendations vary according to system configuration, wastewater characteristics, and operating conditions. Contact Bionetix® Technical Support for specific dosing guidance.

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