

Formula 12

Bacteria for Anaerobic Digesters & Wastewater Systems

Boost Methane Production • Reduce Grease Buildup • Improve Digester Efficiency

Anaerobic digestion is a biological process that reduces organic matter in wastewater through natural decomposition. Anaerobic digesters handle a wide variety of organic materials, but fats, oils, and grease often rise to the surface and form thick grease caps. These layers significantly reduce the available treatment volume and are costly to remove mechanically.

During digestion, methane gas is produced and can be captured as a renewable energy source. However, heavy grease loadings inhibit microbial activity, leading to lower methane yields and reduced overall system efficiency.



Why Choose Formula 12?

Formula 12 is a high-performance microbial supplement that targets FOG, liquefies grease layers, and supports stable methane production. By improving waste breakdown and reducing costly maintenance, Formula 12 helps operators maximize digester efficiency and energy output.

Features

- Specialized microbial blend for anaerobic digestion
- High concentration of grease-degrading bacteria
- Stable enzyme activity to enhance waste breakdown
- Formulation designed for low-oxygen environments
- Compatible with municipal and industrial anaerobic digesters
- Dry, easy-to-handle powder formulation
- Available in 25-lb pails

Benefits

- Reduced grease buildup and clogging
- Enhanced methane production for energy recovery
- Lower operating and maintenance costs
- Improved efficiency in wastewater treatment processes
- Environmentally friendly solution

Dosage Schedule

Flow Rate	Initial Dosage	Maintenance**
Up to 1,000 GPD	½ lb per day for 3 days	½ lb per week
Up to 5,000 GPD	½ lb per day for 3 days	1 lb per week
Up to 20,000 GPD	5 lbs*	1½ lbs per week
Up to 50,000 GPD	8 lbs*	2 lbs per week
Up to 250,000 GPD	15 lbs*	¼ lb per day
Up to 500,000 GPD	25 lbs*	½ lb per day
Up to 1 MGD	50 lbs*	1 lb per day
Up to 5 MGD	50 lbs per MGD*	1 lb per MGD per day
Up to 12 MGD	50 lbs per MGD*	¾ lb per MGD per day
Up to 100 MGD	30 lbs per MGD*	½ lb per MGD per day

* Spread this initial dosage out over the course of 10 days.

** Add as regularly as possible. If you miss one day, add that day's product with the next dosage.

Dosage rate will vary with flow rates, retention times, and system variations.

Do not add to the treatment system at a location where toxic or otherwise adverse pH, dissolved oxygen or temperature conditions may exist at peak levels.

For optimal results, the wastewater treatment system should meet the following conditions:

	Optimum	Minimum
Influent pH	7.0	5.0
Dissolved oxygen, ppm	2.0+	1.0+
C/N/P ratio	100/10/1	100/5/1
Temperature	30 °C (86 °F)	10 °C (50 °F)
Toxic metals, ppm (e.g., hexavalent chromium)	0	0

