

Formula 88H

Thermophilic Bacteria for High-Temperature Wastewater Treatment

Boosts Biodegradation and Odor Control in High-Temperature Systems

Biological wastewater treatment systems depend on bacteria to break down pollutants, and temperature plays a critical role in microbial activity. When wastewater temperatures rise above 107°F, conventional treatment becomes less effective. For consistent performance under these extreme conditions, thermophilic (heat-loving) bacteria must be present to sustain biological treatment and keep the process stable.



Why Choose Formula 88H?

Formula 88H is a specialized thermophilic bacterial supplement designed for wastewater systems operating at high temperatures (up to 125°F). This advanced blend of microorganisms accelerates the breakdown of fats, oils, grease (FOG), hydrocarbons, surfactants, solvents, and cellulose, restoring stability and efficiency in demanding environments.

Applications

- Municipal wastewater plants with elevated operating temperatures
- Food processing and industrial facilities with hot effluent streams
- High-temperature lagoons, digesters, and holding tanks

Features

- Industrial strength
- Contains microorganisms, growth stimulants, enzymes, and penetrants for bioaugmentation in high-temperature wastewater
- Packaged in convenient, ready-to-use 1/2-lb water-soluble pouches
- Lives and reproduces in an environment containing no “free” or dissolved oxygen
- Environmentally friendly
- Available in 25-lb pails

Benefits

- Maintains stable biological activity in high-temperature systems
- Improves BOD/COD removal and effluent quality
- Reduces maintenance and downtime from odor and sludge buildup
- Enhances operational efficiency under extreme wastewater conditions

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

