

Formula 21HG

Advanced FOG (fats, oils & grease) Control for Wastewater Systems

Reduce FOG, improve BOD/COD removal, and enhance odor control

Food processing facilities often generate wastewater containing grease from sources like meat, cooking oil, margarine, butter, shortening, and dairy products. Heavy concentrations of grease are difficult to degrade and create significant treatment challenges. In wastewater plants, grease buildup can lead to excessive foaming, promote the growth of *Nocardia* filaments, increase sludge volumes, and elevate effluent levels of FOG, BOD, and TSS.



Why Choose Formula 21HG?

Formula 21HG is a scientifically formulated microbial blend designed to break down fats, oils, grease, and organic deposits. By enhancing biological activity, Formula 21HG improves BOD/COD removal, sludge settling, and system stability—while reducing odors and preventing grease-related clogs.

Features

- Concentrated microbial formulation
- Contains specialized FOG-degrading bacteria
- Blend designed for high-strength grease waste
- Stable enzyme activity for continuous breakdown
- Compatible with municipal and industrial wastewater systems
- Dry, free-flowing powder for easy application
- Shelf-stable packaging for long storage life
- Available in 25-lb. pails

Benefits

- Prevents costly line blockages and backups
- Reduces maintenance and downtime in WWTPs and food plants
- Improves effluent quality for easier compliance
- Supports stable, efficient biological treatment processes
- Lowers odor complaints and enhances community relations

Applications

- Municipal wastewater treatment plants
- Food and beverage processing facilities
- Industrial wastewater systems
- Lift stations and sewer collection systems

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

