

Formula 45F

Bacteria Supplement For Filamentous Control

FILAMENTOUS

Filamentous bulking and foaming affect most activated sludge plants at one time or another, causing serious problems. Foaming can cause operational and process control problems. In addition to odors and safety hazards, if foam escapes to the effluent, suspended solids will increase and disinfection will be compromised.

There are several causes of filament growth in activated sludge such as low DO concentration, low F/M, septicity, grease and oil, nutrient deficiency and low pH. As part of their process control, many wastewater treatment plants regularly monitor the filaments in their sludge.

It is important to address filamentous growth

problems before they become too severe. Problems resulting from filamentous growth include floating sludge (bulking) in the secondary clarifier and higher levels of suspended solids in the effluent.

Formula 45F is a blend of adapted microorganisms that disfavors the proliferation of various filamentous organisms in aerobic wastewater treatment systems. Generates a dense, good- settling floc with excellent dewatering characteristics. For plants with severe filamentous bulking, this formula may be used in conjunction with chlorination, hypochlorite or peroxide programs.

Features:

- Industrial strength
- 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 pail (Product# 143625)

Benefits:

- A blend of microorganisms that helps reduce the expansion of various filamentous organisms in aerobic wastewater treatment systems
- Helps generate a dense, good-settling floc with excellent dewatering characteristics
- Maximizes the performance of your biological wastewater treatment system



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Dosage Schedule

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.*	1 ½ lb. per week
Up to 50,000 GPD	8 lbs.*	2 lb. per week
Up to 250,000 GPD	15 lbs.*	¼lb. per day
Up to 500,00 GPD	25 lbs.*	½lb. 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 it is required to 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 and 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, °C	30° (86° F)	10° (50° F)
Toxic metals, ppm (E.g., hex., chromium)	0	0