

Formula 99C

Cold-Temperature Bacteria for Wastewater Treatment

Optimized Psychrophilic Bacteria for Consistent Treatment Performance

Environmental factors influence wastewater treatment performance, with temperature being one of the most critical. When water temperatures fall below 50°F, microbial growth and activity slow significantly, leading to longer processing times. For reliable treatment in cold conditions, psychrophilic (cold-loving) bacteria are required to sustain biological activity and maintain system efficiency.



Why Choose Formula 99C?

Formula 99C is a concentrated blend of psychrophilic (cold-loving) bacteria engineered for wastewater systems operating in temperatures as low as 36°F. It maintains stable biological activity and treatment performance under cold-weather conditions.

Applications

- Municipal wastewater treatment plants
- Industrial wastewater systems exposed to cold conditions
- Seasonal or northern-climate treatment facilities
- Lagoons, aeration basins, and cold-weather digesters

Features

- Specialized psychrophilic (cold-loving) bacteria blend
- Effective in wastewater as cold as 36°F
- Stable performance under low-temperature conditions
- Concentrated microbial formulation
- Environmentally friendly and non-toxic
- Available in 25-lb pails

Benefits

- Performs in wastewater as cold as 36°F
- Enhances biological activity and treatment efficiency
- Reduces sludge and solids accumulation
- Supports stable effluent quality in winter conditions
- Minimizes odors associated with slowed treatment performance

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

