

Formula 25DW

Dairy Wastewater Treatment Bacteria

Breaks Down Organic Waste, Controls Odors, and Optimizes Dairy Wastewater Systems

Surveys conducted by the EPA and USDA show that dairy farms generate nearly half (48%) of all animal wastewater in the United States. Without proper treatment, this wastewater can contaminate both surface and groundwater. Dairy operations also face the ongoing challenge of managing manure along with wash water from barns, holding areas, and milk rooms, creating a complex blend of liquid and solid waste.

Although dairy wastewater is generally suitable for biological treatment, its composition makes the process difficult. Elevated levels of BOD, COD, TSS, and FOG are common due to fats, casein proteins, lactose, inorganic salts, detergents, and sanitizing agents. These factors place a heavy load on treatment systems and demand specialized solutions to maintain consistent performance and regulatory compliance.



Why Choose Formula 25DW?

Formula 25DW is engineered specifically for dairy wastewater, breaking down fats, proteins, and lactose while reducing BOD, COD, TSS, and FOG. It improves system efficiency, cuts odors, and helps farmers stay compliant—all in one easy, sustainable solution. Formula 25DW turns a costly problem into a manageable process.

Features

- Industrial-strength microbial blend
- Effective in low-oxygen and variable load conditions
- Targets dairy fats, cleaning agents, and organic solids
- Restores balance to overloaded systems
- Biodegradable and eco-safe
- Available in 25-lb pails

Benefits

- Enhances Dairy Wastewater Treatment – Breaks down fats, oils, proteins, and lactose
- Reduces Odors – Targets odor-causing compounds and prevents hydrogen sulfide formation
- Improves Plant Efficiency – Supports stable biomass and improves BOD/COD removal
- Environmentally Friendly – Safe, sustainable alternative to harsh chemical treatments
- Cost Savings – Reduces maintenance frequency, downtime, and chemical demand

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

