

Wastewater Treatment Microbes

AGM 2003

Attached Growth Microbes



Industrial Fluid Management's AGM 2003

is a synergistic blend of selectively adapted bacteria for application to municipal wastewater systems stressed by industrial loadings or low temperatures.

The product may be used in all types of suspended growth and fixed-film biological treatment systems including lagoons, activated sludge, trickling filters, RBC's and biotowers.

Features

- Contains vegetative and spore-forming bacterial strains capable of utilizing aerobic, facultative and fermentative metabolic pathways.
- Contains no raw enzymes.
- Rapid germination and outgrowth of spores.
- Bacteria can colonize a wide variety of surfaces to produce long-lasting effects.

Specific Benefits

- Enhance organic removal efficiency of biological systems, providing lower effluent BOD, COD and TSS.
- Enhance solids settling where it has been disturbed by loading fluctuations.
- Accelerate the start-up of the new systems and accelerate recovery after upsets.
- Improve cold weather operation.
- Mitigate effects of industrial waste loadings and toxic shocks.

General Benefits

- Improved waste system stability and reduced frequency and severity of upsets.
- Reduced effluent organics.
- Enhanced flocculation in activated sludge.
- Higher levels and diversity of protozoa.
- Rapid recovery from load-related and toxic upsets.
- Targeted removal of specific organics.
- Reduced impact of production increases or changes in product mix on effluent quality.
- Reduced municipal surcharges.
- More rapid new plant, seasonal, or post-maintenance start up.

Optimum Conditions for Use

Bacteria in IFM's products perform within a pH range of 6.0-9.0, with the optimum typically near 7.0. Wastewater temperature affects activity, with an approximate doubling in maximum growth rate for each 18°F (10°C) increase in temperature to an approximate upper limit of 104°F (40°C), unless otherwise indicated. Very low activity can be expected below 41°F (5°C).

Product Characteristics

Bacteria Count	5 billion/gram
Stability	Max loss of 1.0 log/yr when stored under recommended conditions
Appearance	Free-flowing tan powder
Bulk Density	0.50—0.61 g/cm ³
Moisture Content	15 %

Available Packaging

- 25 pound pail
- 50 pound drum
- 1 pound SoluPak
- 1 lb BIO-SOCK

Storage and Handling

Store in a cool, dry place. Wash hands thoroughly with warm, soapy water after handling. Avoid eye contact.

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