

# Wastewater Treatment Microbes

## GWM 2010

### General Wastewater Microbes



*Industrial Fluid Management's GWM 2010* is designed for wastewater management and upset recovery in municipal and residential wastewater environments.

*GWM 2010's* specialized consortium of selectively adapted bacteria combines multiple strain capabilities in to a single synergistic blend that addresses a number of applications in municipal wastewater management. *GWM 2010* can improve operational efficiency by allowing rapid build-up of biomass during seasonal hydraulic peak loadings effectively reducing sludge volumes in wastewater systems.

#### Specific Benefits

- Rapidly reestablish BOD removal efficiencies following upset recovery from unidentified industrial discharges or from hydraulic washout in combined systems.
- Control of hydrogen sulfide in the 103 ppm aqueous range in collection systems via competitive inhibition of sulfate-reducing organisms.
- An alternative to trucked-in sludge for start ups or upset recoveries. Best start-up recovery performance may be seen in conjunction with trucked sludge where immediate solids are required for settling purposes.
- Reductions in filamentous abundance in systems where bioaugmentation tips the balance in favor of single-celled organisms.
- Improved settling while reducing sludge volumes in lagoon systems.

#### Features

- Enhance organic removal efficiency of biological systems, providing lower effluent BOD's, COD's and decrease overall sludge production.
- Accelerate start-up of new systems and accelerate recovery after upsets.
- Increase stability of plant operations when erratic influent loadings occur.

#### 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.
- Improved organics removal to control sludge build-up in Advanced Treatment Units (ATU's).

## Product Characteristics

Bacteria Count	5 billion/gram
Stability	Loss of 1.0 log/yr when stored under recommended conditions
Appearance	Free-flowing tan powder
Odor	Yeast-like

## Product Preparation

**GWM 2010** may be added directly to the waste influent stream or aerated basin. For toxic wastes or short retention times, re-hydration for 30-90 minutes prior to addition to a system is recommended using 2 gallons of water per pound of product. For best results, the make-up water temperature should be between 21° - 31°C (70° - 90°F). For convenience, **GWM 2010** is available in pre-measured water-soluble Solupaks.

## Optimum Conditions for Use

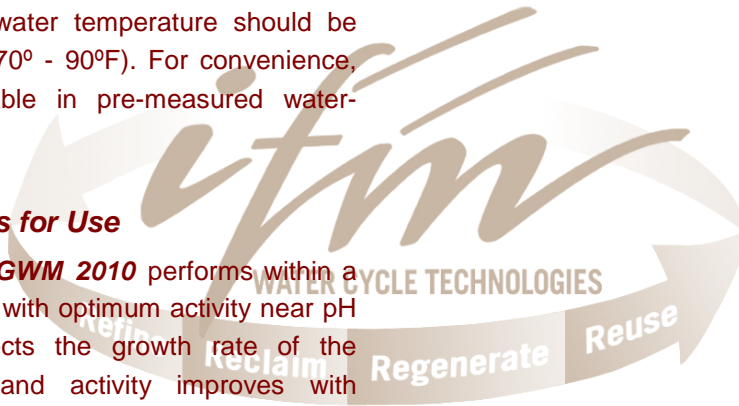
The bacteria in **IFM's GWM 2010** performs within a pH range of 6.0 to 9.0, with optimum activity near pH 7.0. Temperature affects the growth rate of the bacterial population, and activity improves with increasing temperature up to 40°C (104°F). No appreciable activity can be expected below 5°C (40°F).

## Available Packaging

- 25 pound pail
- Half-pound Solupak

## Storage and Handling

Store in a cool, dry place. Recommended storage temperature of 1°C - 23°C (34°F - 73°F). Avoid excessive inhalation. Avoid eye contact. Wash hands thoroughly with warm, soapy water after handling.



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