



## TECHNICAL DATE SHEET

**TZBI-200FOG**

**A BLEND OF AEROBIC AND FACULTATIVE ANAEROBIC BACTERIA FOR USE IN TREATMENT OF FATS, OILS AND GREASES (FOG). HIGH GREASE FOOD PROCESSING, LOOSENS AND LIQUIFIES HEAVY GREASE DEPOSITS.**

Contains surface tension depressants and penetrants.

### **BIOAUGMENTATION WITH TZBI-200FOG:**

- Improve treatment plant performance;
- Reduce foam;
- Lower sludge production;
- Reduce grease build-up;
- Control filamentous growth.

The presence of a complex of amylases and lipases provides the capacity to degrade extra cellular polymers (which cause foaming) and suppress the growth of filamentous organisms.

### **TYPICAL USES OF TZBI-200FOG:**

- Start-up of aerobic biological treatment systems handling wastewaters from milk and food processing, and cheese making;
- Removal of grease deposits and prevention of scum formation in holding tanks, sewers, drains and aeration basins;
- Reduction in the unpleasant odours associated with treatment plants handling fatty wastes



## SPECIFICATIONS

Description	Tan color, free-flowing granular powder
Packaging	250g water-soluble packages; 10kg plastic pail
Stability	Max. Loss of 1 log/yr
pH	6.0 – 8.5
Bulk Density	0.5 – 0.61 g/cm <sup>3</sup>
Moisture Content	15%
Nutrient Content	Biological nutrients and stimulants
Plate Count	5 billion per gram
Storage and Handling	DO NOT FREEZE! Store in a cool dry location. Do not inhale dusts. Avoid excessive skin contact. See MSDS.

## APPLICATION INSTRUCTIONS

Add the water-soluble pouches directly to the system.

### SEWERS:

Flow Rate	Initial Dosage	Maintenance**
Up to 200m <sup>3</sup> /day	1kg/week	0.5kg/week
Up to 500m <sup>3</sup> /day	1kg/2x week	1kg/week
Up to 1000m <sup>3</sup> /day	1kg every second day	1kg/2x per week
Up to 2000m <sup>3</sup> /day	1kg/day	1kg/3x per week



**TREATMENT PLANTS:**

Flow Rate	Initial Dosage	Maintenance**
Up to 25L/sec	15 kg*	0.25 kg/day
Up to 50L/sec	25 kg*	0.5 kg/day
Up to 100L/sec	50 kg*	1.0 kg/day
Up to 500L/sec	50 kg/100L/sec*	1 kg/100L/sec/day
Up to 1200L/sec	50 kg/100L/sec*	0.75kg/100L/sec/day
Up to 10 000L/sec	30 kg/100L/sec*	0.5 kg/100 L/sec/day

\*Spread this initial dosage out over the course of 10 days.

\*\*Add as regularly as possible. If one day is missed, double the daily dosage the next day.

Dosage rates will vary with flow rates, retention times and system variations. The rates above are for typical, well-maintained system.

**ACTIVATED SLUDGE SYSTEMS:**

Activated Sludge Systems include various process flow sheets: e.g. extended aeration, contact stabilization, step aeration, oxygen activated sludge, SBR.

The application rate for all products is based on the average daily flow rate to the aeration basin, excluding the return sludge stream.

**TRICKLING FILTER AND ROTATION BIOLOGICAL CONTACTORS:**

The application rate for all products is based on the average daily flow rate to the filter or contactor, excluding any recirculating process stream.