

# WW07P

## Fats and Grease Digestion/Food Processing

### Product Description

WW07P contains a specially formulated range of adapted high-performance microorganisms developed for use in the biological wastewater treatment with a high content of greases, fats and oils. As well as microorganisms, WW07P contains surface tension depressants and penetrants which loosen and liquefy heavy grease deposits, thereby assisting in their biodegradation.

When used as directed WW07P is safe. It is harmless to people, clothing and the environment and is completely biodegradable.

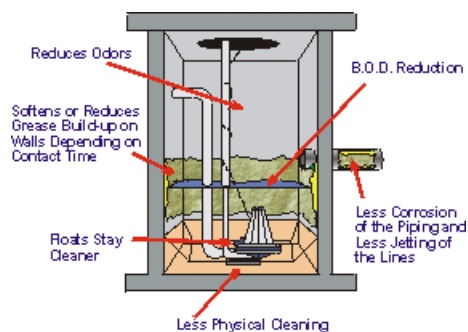
When applied to effluent treatment facilities, WW07P assists in:

- Helping to establish a biomass capable of handling these difficult wastes.
- Reducing the accumulation of unsightly deposits of grease and fat.
- Increasing the efficiency of overloaded treatment systems.
- Preventing the blocking, ponding and possible collapse of filter-bed media.
- Significantly reducing odour problems.
- Enhancing BOD and COD removal while improving sludge settlement.

### Effect

The range of microorganisms contained in WW07P consists of aerobic and facultative anaerobic bacteria. Selected from their natural environment, these bacteria have been adapted to give optimum performance in degrading greases, fats and oils by providing the normal mechanism for the selection of the biomass population with the opportunity to change its make-up in a matter not usually available.

Effects on Grease Trap/Pump Chamber



### Other Benefits include:

- Regular application lowers maintenance costs for grease blockages in treatment plant.
- Controls sulphide odours.
- Treatment is effective for controlling foam.
- Prevents grease buildup in digesters.
- Improves performance in the treatment plant.

### Bacterial Formulation

Plus

Bio-Enhancer

Plus

Micronutrient

### Benefits of WW07P:

- Controls Grease Build-up
- Improve Treatment Plant Performance
- Control Filamentous Growth
- Reduces Foam
- Lower Sludge Production

### Applications

Typical uses of WW07P include:

- Start-up of aerobic biological treatment systems handling wastewaters from milk, processing, cheese-making and other food processing.
- Removal of grease deposits and prevention of scum formation in holding tanks, sewers, drains and aeration basins.
- Acceleration of the biological degradation of wastewaters containing high levels of fats, greases and oils.
- Reduction in the unpleasant odors often associated with treatment plants handling fatty, wastes.

In addition to the bacterial element of WW07P, a number of free enzymes are produced by and are present within the product. The presence of a complex of amylases and lipases, in conjunction with the bacteria, provides the capacity to degrade extra cellular polymers, (which cause foaming), and suppress the growth of the filamentous organisms by affecting the structure of the filaments.

## Case History 1

1500 cubic feet of grease had accumulated in the scum pit and 35 cubic feet of F.O.G was being added each week. Disposal involved manual removal for transporting to a landfill. A month after adding WW07P product, operators were beginning to notice subtle improvements in floc formation and in the biological community as a whole. The 1500 cubic feet of grease accumulation was beginning to degrade and two months later it was gone.

## Case History 2

This 1.5 MGD waste treatment plant pumped F.O.G. from the scum pits directly into the digester. Over the years build up accumulated in the digester, decreasing digestion efficiency and methane production while increasing the volume to be wasted. They began feeding WW07P free microorganisms directly into the scum pits to liquefy and degrade the F.O.G. being pumped into the digester. In this state, further degradation of material in the digester occurs more easily. The product also helped in reducing total solids in the digester. The use of the WW07P in water-soluble bags made application easy, and dosage rates accurate.

Upon annual internal inspection, the digester is visibly cleaner with less fat build up. Use of the WW07P product has been ongoing for several years.

## Specifications

Form:	Free-flowing granular powder
Colour:	Brown, Blue Mixed
Nutrient Content:	Biological nutrients & stimulants
Plate Count:	5 billion per gram

### Packaging

1/4 & 1/2 kg. water soluble packs. Supplied in plastic pails • Bulk 12.5, 25 and 50kg pails.

### Storage

DO NOT FREEZE! Store in a cool dry location. Do not inhale dusts, avoid excessive skin contact. SEE MSDS.

### Activated Sludge Systems

Activated Sludge Systems include various process flow sheets for example: Extended Aeration, Contact Stabilization, Step Aeration, Oxygen Activated Sludge. The application rate for all products is based on the average daily flow rate to the aeration basin, excluding the return sludge stream. For seasonal or widely fluctuating flows, please contact us with your specifications.

### Trickling Filter and Rotating 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.

### Lagoon Systems

For aerated lagoon systems, the application rate is based on the average flow to the lagoon.

## Application Instructions

### Sewers

Flow Rate	Initial Dosage *	Maintenance **
Up to 100,000 lpd	1/2kg per week	1/4 kg. per week
Up to 250,000 lpd	1/2kg 2x week	1/2kg per week
Up to 500,000 lpd	1/2kg every other day	1/2kg 2x week
Up to 1Mld	1/2kg per day	1/2kg 3x week

### Treatment Plants

Flow Rate	Initial Dosage*	Maintenance**
Up to 1.1 Mld	7 kg/d.	¼ kg/day
Up to 2.3 Mld	12kg/d	½ kg/day
Up to 5 Mld	25 kg/d	1/2kg/day
Up to 25 Mld	2.5kg per Mld	0.5kg/day per Mld
Up to 500 Mld	2.5kg per Mld	0.25kg/day per Mld

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

\*\* Add as regularly as possible. If it is required to miss one day, add that day's product with the next dosage.

Dosage rate will vary with flow rates, retention times and system variations. The rates above are for a typical, well maintained system. For more information contact Oasis Environmental Ltd.