



## **GREASE-X<sup>®</sup> BIOZYME**

### **Microbial Ecosystem for Residential Sewer & Commercial Grease Traps & Interceptors**

#### **Fat, Oil & Grease Problems**

FOG. (fat, oil, grease) can be a real problem for home owners, business owners and business managers. Contaminants such as fats, grease, soap scum, and cellulose can stick to the pipe walls restricting the water flow to the point of causing a blockage and subsequent back-up. In grease traps grease build can cause a smelly mess. Back-ups are embarrassing and can be costly when interceptors have to be pumped more to prevent odors and failures. Now, through biotechnology, there is a reliable and easy to use treatment that offers a **preventative maintenance solution**.

#### **THE BIOTECHNOLOGY SOLUTION: GREASE-X BIOZYME Microbial Ecosystem**

Microorganisms are nature's own method of eliminating organic waste. The specially selected mixtures of live microbes contained in GREASE-X BIOZYME, along with the enzymes they secrete, are well suited to digesting fat, oil, grease (FOG), and other organic matter as it enters and flows through the collection system. The GREASE-X BIOZYME microbes adhere to the collection system lines and lift station walls. In digesting organic waste, they reproduce and form colonies that continue to consume floating waste and accumulated FOG. The wall coating also acts as a lubricant to help reduce back-ups. The by-products of microbial digestion are perfectly natural, environmentally safe substances like carbon dioxide and water.

#### **PRODUCT DESCRIPTION**

GREASE-X BIOZYME is a highly concentrated microbial ecosystem containing specialized natural microorganisms selected for maximum efficiency in the biodegradation of organic contaminants in industrial and residential sewer. It is supplied as a dry fine granule.

#### **BENEFITS OF GREASE-X BIOZYME USAGE**

- Maintains free flowing collection systems.
- Reduces the floating FOG blanket and accumulation of grease on pipe and grease trap walls.
- Reduces line and manhole deterioration due to sulfates.
- Saves businesses money versus mechanical and chemical line cleaning.
- Environmentally friendly approach.
- Contains no hazardous caustic, surfactants or solvents.
- Supplied in dry granular form for optimum stability.

To Order Call (800) 844-4974 or visit [www.rootx.com](http://www.rootx.com)

## APPLICATION SUGGESTIONS

Application techniques are very important to the success of any biological product. GREASE-X BIOZYME treatment dosage depends on how plugged the sewer or collection lines are at the start of treatment and how large the continual FOG load is.

### General Application Guidelines

- (1) Be sure to open the clogged sewer line before applying GREASE-X BIOZYME (Grease-X Biozyme is a preventative maintenance solution it will not open a clogged drain).
- (2) Mix recommended amount of Grease-X Biozyme in two gallons of warm water and let sit for fifteen minutes (this will activate the microorganisms from their hibernating state).
- (3) Pour the solution of water and Grease-X Biozyme into the sink drain.
- (4) Avoid using water in the home or business for twenty minutes.
- (5) Review application rates for repeat maintenance.
- (6) Be sure to start the maintenance with the initial Inoculation process.

<u>Flow Rate</u>	<u>First Week</u>	<u>There After</u>
Indoor Grease Trap	¼ lb. / day	½ lb. / week
 <u>Outside Grease Interceptor</u>		
Under 1000 Gallon Tank	½ lb. / day	½ lb. / week
Over 1000 Gallon Tank	1 lb. / day	1 lb. / week

## SEWER LINE APPLICATION RATES

### Initial Inoculation Plan per 1' - 500' Section

Applications for 5  
consecutive days

Pipe Dia.	Average Grease	Heavy Grease
4	0.5	1
6	0.5	1
8	1	1.5
10	2	2.5
12	2.5	3
18	5	7
24	9	6.5

\* lbs. per day

### Maintenance Plan per 500'-1000' Section

Weekly  
applications

Pipe Dia.	Average Grease	Heavy Grease
4	0.5	1
6	0.5	1
8	1	2
10	2	3
12	2.5	3.5
18	5	6
24	9	9.5

\*lbs. per week

1 cup of bulk dry Biozyme = .5 lbs.

## PARAMETERS FOR USE

	<u>Optimum</u>	<u>Minimum</u>	<u>Maximum</u>
pH	7.0	4.5	9.0
Dissolved oxygen	> 3 ppm	2 ppm	none
Carbon/nitrogen ratio	10:1	10:1	20:1
Temperature	86°F	66°F	104°F
Compatibilities:	avoid concentrated toxicants like heavy metals, disinfectants and acids		

## PRODUCT SPECIFICATIONS

Overall, the number of microorganisms the product contains best measures microbial product quality. The typical measurement is done by plate count and is reported in terms of microbe cells (called colony forming units or CFU) per gram of product. GREASE-X BIOZYME is manufactured to have as high strength as possible in order to give the customer the best value. Customers should be careful when comparing microbial products. Some claiming higher cell counts will distort the truth and quote counts for quantities of product greater than one gram. For example, 1 lb. of GREASE-X BIOZYME contains over 900 billion cells but the specification is,

GREASE-X BIOZYME Specification = 2,000,000,000 (2E+9) CFU per gram minimum

## PRODUCT FORM AS SUPPLIED

For long-term stability GREASE-X BIOZYME is supplied as a dry fine granule. As supplied, the microorganisms in GREASE-X BIOZYME are alive but in a dormant state. When added to water, the microorganisms become activated and begin vegetative growth utilizing the organic contaminants available. For ease of handling, GREASE-X BIOZYME is supplied in both 2 lb. Jars and 5-gallon plastic pails.

## PRODUCT STORAGE:

Biological products are unlike inert chemical products, they require special treatment during storage and handling.

- Do not store continuously at temperatures above 40°C (104°F).
- Do not freeze.
- Store out of direct sunlight in a well-ventilated area.
- Keep product dry until ready to use.
- Do not mix with any materials not recommended by RootX, especially disinfectants and harsh chemicals.

## SAFETY

GREASE-X BIOZYME utilizes natural microorganisms, which are harmless to humans, plants and animals. GREASE-X BIOZYME does not contain genetically altered microorganisms. GREASE-X BIOZYME does not contain toxic or hazardous chemicals, acids, caustics or solvents. It is not corrosive to metal, ceramic and plastic. Users are advised to consult the Material Safety Data Sheet for further information and guidance.

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**Keep out of reach of children.**

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**IMPORTANT NOTICE TO PURCHASER:**

“RootX warrants that the product conforms to its compositional description and is reasonably fit for the purpose stated on the label when used in accordance with the label instructions under normal conditions of use. There are no other express or implied warranties, whether as to merchantability, fitness for any use, or otherwise, given in respect of the product. Neither RootX nor its agents shall be liable for any damage, loss, or injury, whether the same arises directly or consequentially, by reason of any matter whatsoever relating to the use of the product, and any buyer’s or user’s exclusive remedy in any instance shall be limited to a replacement of the amount of product used to treat the service lateral or mainline at no cost.

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