

BIO CLEANING SOLUTIONS

Microzyme™ D60 FOG Free Bio Block

Application for – Grey Water, Fats, oils, and grease degradation



A unique solid format product, combining a high bacteria count with slow-release technology for use in degrading organic waste in greasetraps and grey water holding tanks.

Microzyme™ D60 FOG Free Bio Block provides a way of dosing high numbers of active waste degrading bacteria into grease trap and grey water applications without the need to install a dosing pump or make electrical connections, as required for a

liquid product.

Performance is improved over manual product dosing as there are no missed doses, and the release of bacteria is continuous rather than a small number of times per day as with a manual dose.

Microzyme™ D60 FOG Free Bio Block will continuously dose high levels of bacteria into a grease trap / grey water container over a 30 day period (depending on flow rate). The specifically selected, naturally occurring bacteria contained in the Bio-block will reduce grease, fats and oils build-up as well as reducing the amount of solids and sludge in the trap/container, which has a major effect on reduction of malodour from the trap/container.

Technical features

A highly effective product that is based on biological as opposed to chemical action

Very high bacteria specification for maximum effectiveness in this tough environment

Specifically selected highly effective bacteria multi-strain formula for:

Production of lipase to cleave fats

Production of other enzymes to degrade food solids and sludge

Ability to survive in the low pH environment of an active grease trap or grey water container

Product contains multi Bacillus bacteria in 100% spore form for:

- Extended product life
- Product stability
- Maintenance of original product specification
- Unique slow release solid format

- Facilitates continuous dosing over the life of the product
- Simple format will not require additional dosing systems e.g. pumps and electrical installations
- Continuous 24 hours a day release as opposed to discrete doses with other systems
- Release of bacteria is flow related, in that dissolving rate increases with higher liquid flows
- Bio Blocks can be added to mesh bag to enable a wide range of effluent volumes to be treated

Treatment options

A range of options is available to suit customer requirements:

- 1 Kg (up to 10 x 100 gram) block – will treat 25 - 100 litre greasetraps

- 5 Kg (up to 50 x 100 gram) block – will treat 500 - 1500 litre greasetraps

Intermediate size or larger traps may be treated using multiple bio blocks in series

The volume of treatment blocks is dependent on the nature and severity of content of the grease trap requiring treatment

The rationale for 100 gram blocks is that you as the operator can select the best treatment rationale that is most effective and that is most cost effective

Advantages of bio-block

Continuous operation 24 hours per day

Easy to install – no special equipment or labour required so highly cost effective

Performance benefits over manually dosed systems - no missed doses

Effectively breaks down fats, oils and greases

Reduces sludge build up so eliminates malodour such as hydrogen sulphide at source

Overall, increases system efficiency

PRODUCT CHARACTERISTICS

- **Bacteria Counts** : *Bacillus Subtilis* Aerobic bacteria not less than $1 \times 10^8/g$
: Anaerobic bacteria not less than $1 \times 10^8/g$
- **Heavy Metals** : Less than 50ppm
- **Aflatoxins** : Absent
- **Antibiotic Activity** : Absent
- **E. Coli** : Absent in 01.g
- **Form** : Solid Bio Block/Disc
- **Appearance** : Light brown with off-white granules
- **Packaging** : 100 gram
- **Enzyme Mix** : Subtilisin / Lipase
: Protease enzyme protein

Dosage:

The following dosages are merely a guideline.

1. INDUSTRIAL & COMMERCIAL

Area	Initial Dose Rate	Regular Maintenance Rate
Grease Traps	2 x 100g per week	6 x 100g per month
Industrial Effluent (e.g. abattoir)	1% for 3 days (w/w)	0,3% per day (w/w)
Agricultural Waste	4% once off (w/w)	1% weekly (w/w)

2. SEWAGE PLANT / GREY WATER

Area	Initial Dose Rate	Regular Maintenance Rate
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Trickling Filter	0,1% once off (w/w)	0,05% weekly (w/w)
Anaerobic Digester	1% for 3 days (w/w)	1% weekly (w/w)
Oxidation Pond	1% for 3 days (w/w)	1% weekly (w/w)
Grey Water Container 250 liter	2 x 100g per week 2 x 100g per week	6 x 100g per month

- All dosages are guidelines – dosages to be amended to suite desired result

* ***For more advanced and faster results, the procedure can to be complemented with Odorite Ultra Grease Trap Liquid dispensed into the system at the point leading to the fat trap daily***

Storage and handling:

- Avoid exposure to temperatures above 25°C
- Store in a cool dry place
- If contact with the skin and eyes occurs, wash with clean water

Microzyme™ FOG Free Bio Block is designed as a bio-technical aid to treatment of organic waste material offering the following advantages: liquefaction and reduction of solids, reduction of odor, and easier disposal of waste, aids general cleaning of soiled areas, safety in operation of effluent systems, offers a viable alternative to current processing techniques using a bio-technical approach.

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