

BioSmart™ Bacterial Products

Industrial Oil, Grease & Fat Degradation BioOGF Plus

BioOGF Plus is a quick acting, highly concentrated, proprietary blend of bacteria and enzymes, which have been carefully formulated to degrade the fats, oils and greases found in waste water systems.

The product is similar to BioOGF but has the added advantage of being designed for large-scale industrial use.

In all environments involved in the preparation of mass products covering areas, such as in large garden centres, industrial bakeries, industrial butcheries, large scale pasty and pie production, ready meal production sites and in some cases, large fast food chains etc, there is always regular quantities of solid food waste, which then find their way into the drainage system and as a result, problems begin to develop, with the potential consequence of 'site closure'.

Historically, the significant build-up of grease deposits has often led to unpleasant odours, unhygienic conditions and immense pressure on site management. Invariably, the industrial operations have had no alternative but to apply either chemical or mechanical treatment. This treatment has been the only solution available and these hazardous, toxic chemicals have compounded in the considerable damage to the environment.

The Product and the Solution

BioOGF Plus is a quick acting, highly concentrated, proprietary blend of bacteria and free enzymes, which have been carefully formulated to degrade the organic matter found in waste water systems. The product contains free enzymes to kick-start the digestion of fats/oils/greases (FOG's), and additionally, to naturally occurring microbes, which following their establishment, continue the enzymatic breakdown of the organic material initiated by the free enzymes. The product in essence is similar to BioOGF but has the added advantage of being designed for large-scale industrial use.

Benefits of regular application

Fast dramatic effect

Enzymes in the product kick-start the digestion of fats/oils/greases, allowing visible reductions in grease

Superior fat digestion

FOG's are composed of triglycerides and by applying BioOGF, FOG levels are dramatically reduced, due to the effective



Key product features

- Stable blend of safe Bacillus spores
- Fast acting free enzymes
- Production of high levels of multiple extra-cellular enzymes, providing a wide range of degradation capabilities including grease, short and long chain fatty acids, cellulose, protein and starch
- Low pH effectiveness (down to pH 4.5)
- Low temperature efficacy (down to 10°C)
- Continued performance in low nutrient conditions
- Ability to work under aerobic and anaerobic conditions

breakdown of triglycerides, long chain fatty acids and short chain fatty acids, by the consortium of product bacteria.

Improved free-flow in drain lines

The trapped grease levels are reduced in-situ and not transferred downstream, reducing the need for grease trap pumping and the incidence of maintenance problems.

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Effective Odour reduction

The production of odours is reduced, due to the product microbes inhibiting the production of hydrogen sulphide and from the effective break down of volatile fatty acids that may be produced in septic or anaerobic environments.

Complete digestion of solids

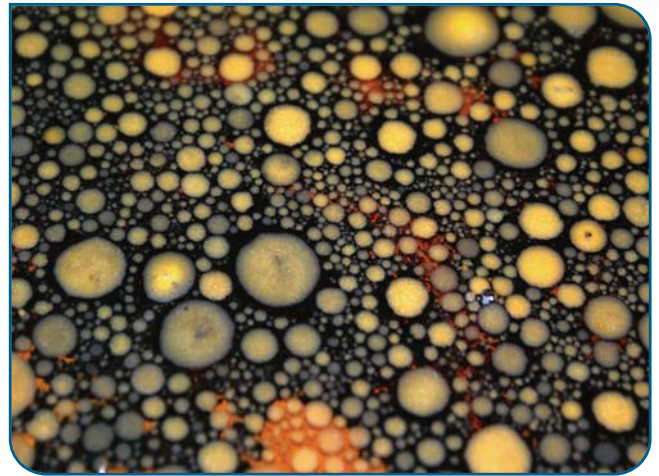
The excretion of high levels of amylase, cellulase, lipase and protease enzymes by the product bacteria breakdown all the organic components of waste associated with the drain environment.

Reduction in BOD levels, which in turn, reduces sewage costs

The application of BioOGF will reduce the BOD's by as much as 80% and in doing so, will mean that the sewage costs are dramatically reduced.

Usage instructions

The dosing criteria is subject to a survey, which would include the type of waste, loading, COD levels, fat levels and residence time. The survey form needs to be used but as a general guide, the dosing should be applied at a rate of 1 litre concentrate per 10,000 litres of water per day.



Health & Safety

BioOGF Plus should be handled under good house keeping practices. The Product contains naturally occurring non-pathogenic bacterial cultures and enzymes. Wash hands after use, avoid breathing product spray and keep away from drinking water and foodstuffs. Product is non-flammable, biodegradable, non-toxic and when used as directed, is completely safe. For best results, store product in a cool, dry place.

