

TRUE WATER

BIOLOGICAL • CHEMICAL • PLANT

BIOFUSION
NATURE & TECHNOLOGY

ADVANCED BIOLOGICAL SOLID FORMULATIONS



WASTE & EFFLUENT TREATMENT BIO-BLOCK

A unique bacterial-laden solid, combining a high bacterial count with slow release technology for use in wastewater and effluent handling facilities

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WASTE & EFFLUENT TREATMENT BIO-BLOCK

Overview

BIOFUSION WWTW BIO-BLOCK is a slow dissolve, bacterial-laden solid for use in degrading organic waste in higher flow systems such as lift stations, wet wells, etc. The safe, application-specific bacteria are present in high numbers to handle difficult organic problems. The unique block will dissolve gradually which allows for continuous treatment and degradation of waste. The naturally-occurring bacteria contained in the block will reduce odour, sewage solids, sludge, fats, oils and grease build-up.

Applications

- Wet Wells
- Waste Water Plants
- Septic Tanks
- Grey Water Systems
- Waste Pumps
- Oxidation Ditches
- Lift Stations
- Lagoons & Dams

Advantages of BIOFUSION BIO-BLOCK

Optimized proprietary bacterial consortium degrades a broader spectrum of substrates

Effectively breaks down fat, oils and grease and thereby eliminates malodours at source

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

Continuous operation 24 hours per day, increases system efficiency

Degrades high concentration of waste and enhances BOD/COD/TSS removal

Reduces sludge build-up helping to eliminate malodours such as hydrogen sulphide

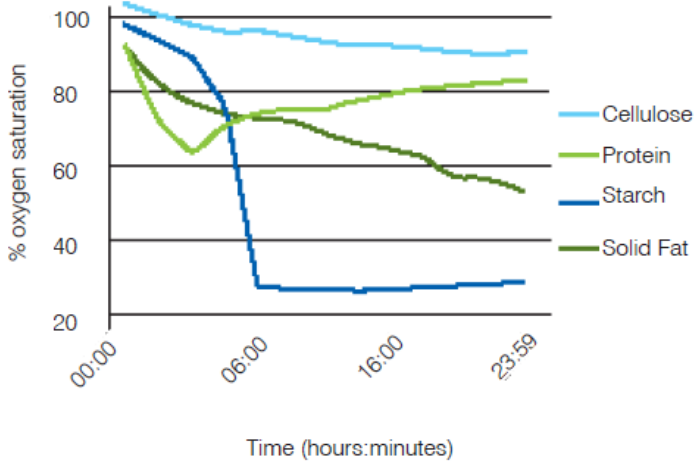
Hydrogen sulfide increases not dependent on people or equipment for dosing; performance benefits over manually dosed systems

All strains are EEC Class 1. Product contains Bacillus bacteria in 100% spore form for extended product life

Manufactured in accordance with recognized international quality standard ISO 9001

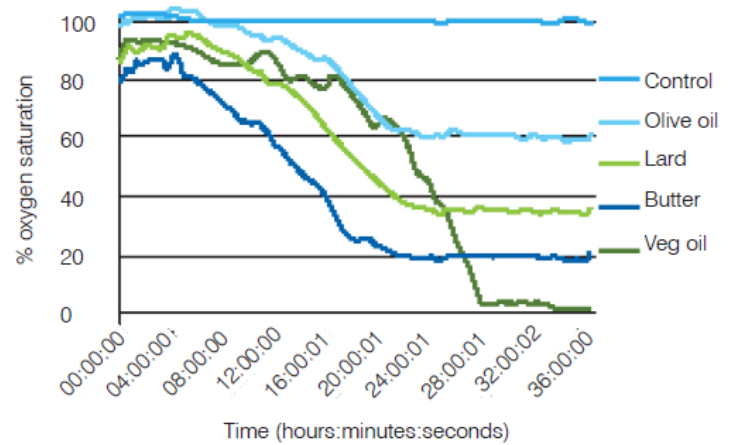
Product Testing

All around biodegradation ability of strains in BIOFUSION BIO-BLOCK



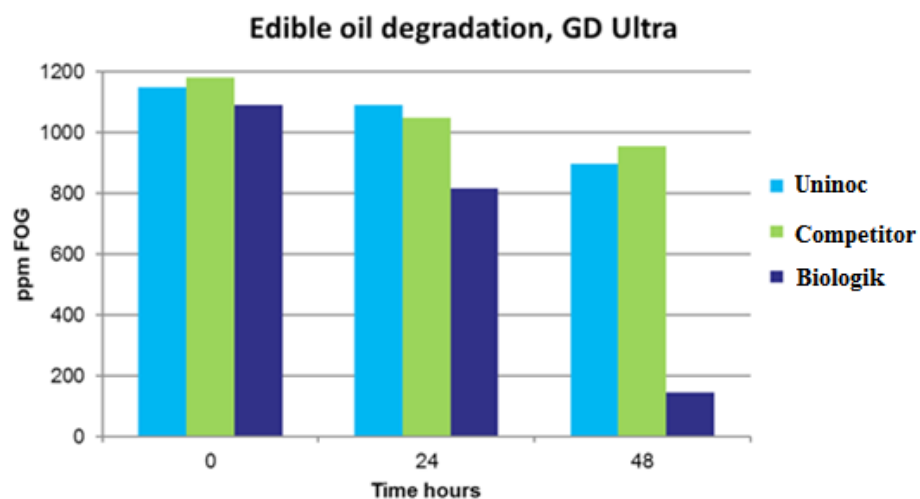
The above graph shows the all-around degradation ability of BIOFUSION BIO-BLOCK on different substrates.

FOG degradation by strains in BIOFUSION BIO-BLOCK



The above graph shows the degradation of different fats, oils and greases by BIOFUSION BIO-BLOCK. As the substrates are degraded the % oxygen saturation decreases.

Edible oil degradation - BIOFUSION BIO-BLOCK



This graph shows data collected using an Infra-Red analyzer. This measures the actual oil concentration (including partial breakdown products such as fatty acids) before and after treatment.

The competitor product degrades at best 20% of the oil and is comparable to the control test which has not been treated with bacteria.

Biofusion Bio-BLOCK degrades over 80% of the oil over the same timescale.

Technical specifications

targeted compounds	organic waste in higher flow waste water treatment system	
bacterial count	7.00E+09 cfu/g <i>Bacillus</i> spores	
bacterial type	<i>Bacillus</i> spores	
formula properties	blue solid with mild surfactant odour	
performance properties	effective pH range: 4.0-11.0	temperature range: 5-50°C
packaging	1kg Block - 4 per case 5kg Block - 4 per case 15kg Block - 1 per case (Shelf life of 24 months in an original unopened container).	

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