

# ClearBlu

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ENVIRONMENTAL

ADVANCED ENVIRONMENTAL PRODUCT

Bio-Block



## Bio-Block

a unique bacterial-laden solid, combining a high bacterial count with slow release technology, to dose bacteria into wastewater and effluent handling facilities

### overview

**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, naturally-occurring bacteria are present in high numbers to handle difficult organic problems.

The unique brick will gradually dissolve over a 30-90 day period which allows for continuous treatment and degradation of waste. The naturally-occurring bacteria contained in the block will reduce odor, sludge, fats, oils, and grease buildup.

### advantages of bio-block

Greatly reduces labor time	Enhances BOD/COD removal
Reduces Hydrogen Sulfide	Cost effective & easy to use
Reduces sludge build-up	No special equipment needed
Breaks down fat & grease build-up	Increases system efficiency
Eliminates malodors at their source	Contains no chemicals
Degrades a wide range of complex organics	Changes biomass dynamics

### applications

- wastewater plants
- holding tanks
- reactors and contractors
- waste pumps
- oxidation ditches
- lift stations
- activated sludge
- lagoons

### degradation flow rates when using bio-block

25 KGD - 75 KGD	2 lb Block	KGD = Thousand Gallons a Day MGD = Million Gallons a Day
75 KGD - 250 KGD	5 lb Block	
250 KGD - 1 MGD	10 lb Block	m3 = Cubic Meters a Day
1 MGD+	30 lb Block	
95 m3 - 284 m3	.91 kg Block	
284 m3 - 946 m3	2.27 kg Block	
946 m3 - 3785 m3	4.5 kg Block	
3785+	14 kg Block	



## technical specification of bio-block

application	organic waste in higher flow wastewater treatment systems
bacteria count	4 billion cfu/gram
bacteria type	bacillus spore blend
typical properties	<p>appearance - red solid          fragrance - mild earthy</p> <p>form - solid block          shelf life -24 mo/u.o.c.</p>
performance properties	<p>effective pH range - 5.0 - 9.5</p> <p>temperature range - 45 - 120°F          5 - 50°C</p>
packaging	<p>2 lb block is supplied 4 blocks per case    10 lb block is supplied 4 blocks per case</p> <p>5 lb block is supplied 4 blocks per case    30 lb block is supplied 1 block per case</p>

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