

# BIO-SYSTEMS EUROPE®

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## EU10 Biological inoculant for Wastewater treatment

**EU10** is an easy to use and reliable biological inoculant that will improve the performance of wastewater treatment plants. Consistent reduction of chemical and biological Oxygen demand COD/BOD is achieved by breaking down suspended and dissolved organic waste in a cost effective manner.

Where discharged to sewer water costs are calculated by the Mogden formula and are directly related to COD and Suspended solid levels. Any reduction gives quantifiable financial savings. Even if discharge levels are achieved consistent water quality improvements will save money.

For treatment plants operating at the limit of their discharge consent the improved performance will reduce the need for tanker removal and allow increased flow.

**A large discharge of milk fat overloaded the water treatment plant, by using EU10 the effluent was quickly brought back within consent limits**



**Before**



**After treatment with EU10**

**Application:** Start up dose **60g per m<sup>3</sup>** of the aeration tank capacity.

Followed by a monthly maintenance of 5g per m<sup>3</sup>

This measurement takes into consideration organic loading, flow rates and retention times

Reduced COD and Suspended solids = £'s

**Method of use:** For the start-up add EU10 directly into the tank that has aeration, spreading the total amount over three days to avoid wastage. Monthly top up, dose in one application into the same tank. This will build a robust system and keep the treatment plant working at its optimum.

**EU10** is a formulation of Group 1 naturally occurring and appropriate non-pathogenic bacteria in very high concentrations. They are selected for their superior floc forming characteristics and their ability to out compete filamentous bacteria for their preferred fat, oil and grease substrate.

**EU10** is designed to improve the performance of biological systems in the following ways:-

- It rapidly establishes and maintains a robust biomass that is able to degrade these high grease content wastes
- It increases BOD and COD removal efficiency, thus assisting organically overloaded plant
- It produces sludge flocs with superior settling characteristics that can assist hydraulically stressed systems
- It prevents the blocking, ponding and possible collapse of filter-bed media
- It prevents the build up of grease, oil and fat deposits on walls and other surfaces of the system

### EU10 SPECIFICATION

Form: Free flowing granular powder  
Colour: Buff to Brown  
Specific Gravity: 0.5 to 0.7  
Contents: Selected micro-organisms and surface tension depressants on a Soya carrier

When used as directed **EU10** is completely safe. It is harmless to people, animals and the environment, and completely

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