

BIO-SYSTEMS EUROPE [®]

Enigma Business Park, Spring Lane North, Malvern Link, Worcestershire WR14 1BU, England
Telephone: +44(0)1684 577171 Fax: +44(0)1684 892251

EU40 Biological inoculant for Wastewater systems containing general organic material Food waste - Domestic Sewage -

In a wastewater system the majority of the work is done by a wide range of naturally occurring bacteria that break down the organic contamination in different ways and part of this process is the by-products that are then produced. Many of which are undesirable such as Hydrogen Sulphide gas or foul odours.

The overall effect is one of low performance and vulnerable to even minor toxic shock with poor COD, Suspended solids and Ammonia reduction, this can be overcome by engineering, with capital outlay simply make the system bigger.

An alternative is to make the systems work better, change the biological matrix to favour bacteria that work in the preferred way. This is achieved by adding a biological inoculant containing high performance strains that will dominate the biomass and suppress the less desirable types by outcompeting them for organic particles and nutrients.

EU40 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 through put.

EU40 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

Application: Start up dose 20g per m³ of the aeration tank capacity.

Followed by a monthly maintenance of 5g per m³

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

Method of use: For the start-up add EU40 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.

EU40 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 SPECIFICATION

Form: Free flowing granular powder
Colour: Buff to Brown
Specific Gravity: 0.75 to 0.85
Contents: Selected micro-organisms and surface tension depressants on a Soya carrier



BIO-SYSTEMS EUROPE is a trading name of MICROFERM LIMITED

E-mail: sales@biosystemseurope.co.uk

Web: www.biosystemseurope.co.uk