

Stabilox

Avecom

Added Value
Environmental
Composites

AVECOM N.V.

COMMERCIAL OFFICE
Incubatie & Innovatiecentrum
Technologiepark 3
B-9052 Gent (Zwijnaarde)

Mobile: +32 (0)476 41 58 62
E-mail: info@avecom.be
Website: www.avecom.be

REGISTERED OFFICE
Bloemendalestraat 138
B-8730 Beernem

Tel.: +32-(0)50-79.10.26
Fax: +32-(0)50-79.10.30

ONTWERPBUREAU DEGRAEVE 050/34 65 42

AVECOM N.V.

COMMERCIAL OFFICE
Incubatie & Innovatiecentrum
Technologiepark 3
B-9052 Gent (Zwijnaarde)

REGISTERED OFFICE
Bloemendalestraat 138
B-8730 Beernem

Stabilox

Stabilox is a liquid supplement of nutrients and growth factors for a **stable oxidation** in aerobic biological wastewater treatment systems. It is an all-round supplement for micro-organisms.

The most widely used aerobic biological wastewater treatment system is the activated sludge system. The activated sludge process is composed of an aeration and a sedimentation phase.

In the activated sludge reactor the biomass removes the organic components present in the influent. During the sedimentation phase the sludge is separated from the treated water. The effluent is discharged and the settled sludge is recycled.

An activated sludge system is a dynamic system where the microbial balance depends on many physico-chemical parameters such as pH, temperature, salts present in the reactor,...

Many of those systems can be made more efficient by simply adding essential nutrients and minerals. Especially a lack of bio-available phosphorus can strongly influence the nitrification in a negative way.

Stabilox improves the environmental conditions so that the useful bacterial groups are favoured, thus maximising the removal efficiency of the system and improving the sludge settling properties.

Stabilox is composed of micro- and macronutrients (for example phosphorus), which enhance optimal stability of the oxidative microbial processes such as the aerobic conversion of organic matter and the nitrification. Moreover, the product also contains some essential vitamins and trace-elements (Fe, Cu, Mn, ...), which stimulates the diversity of the bacterial species and the higher trophic protozoa in the activated sludge.

AIM

- ◆ Optimisation of the nutritive balance of the biology to improve the efficiency (higher bacterial activity, higher COD-removal and nitrification)
- ◆ Improvement of the reliability of the overall system (on long term basis)

ADVANTAGES

- ◆ A better nitrification, even at low winter temperatures
- ◆ Bacteria are in excellent condition and are therefore more resistant to shock-loadings

INSTRUCTIONS FOR USE

- ◆ A poor **nitrification** is an indication of an unbalanced nutrition. To adjust this, one can add, depending on how critical the initial situation is, a dose of **Stabilox** equivalent to 0,2 L / m³ influent. Afterwards, the amount is adapted to the level of residual bio-available phosphorus in the effluent. Usually, the dose can be lowered to 0,05 L / m³ influent.

- ◆ **Stabilox** is applied in the usual temperature- and pH-range of the aerobic biology.

PACKING / SHELF LIFE

Available in 1m³ multibox.

Stabilox is tenable for at least 1 year. It is recommended to store the product under frost free conditions.