

NovoMAX

Treatment for activated sludge wastewater treatment plants (WWTP)

By using this product, the following results will be achieved for the WWTP:

- Reduced amount of sludge to be extracted.
- Reduced BOD and COD.
- Reduced foaming.
- Reduced bad odors.
- Improved plant efficiency.
- Improved effluent quality.
- Accelerated plant processes.
- Energy and time savings.
- Accelerated degradation of organic materials.



This bacterium multiplies the bacteria already present in your plant. Its function is to increase the biological mass of your plant.

Contains bacterial strains to:

- Perform in both aerobic and anaerobic conditions.
- Biodegrade organic matter and compounds of proteins, carbohydrates, and exclusive hydrocarbons.

Novomax works without issue at temperatures from 5 °C to 40 °C



- Withstands altitudes up to 5800 meters above sea level.
- Eliminates BOD and COD.
- Eliminates bad odors.
- Works in both aerobic and anaerobic plants.
- Accelerates the degradation of organic materials.



The difference between our bacteria and those in the market is the bacterial count. Our product contains 5 trillion microorganisms per gram.

The product contains facultative bacteria capable of degrading different compounds present in wastewater, such as nitrates, phosphates, excess biomass/sludge, proteins, sugars, animal and vegetable fats, oils, starches, hydrogen sulfide, among others, which affect the efficiency and operation of the system. This is reflected in the values of BOD, COD, and TSS.

How does it work?

Once inoculation is carried out, the bacteria begin to multiply and become part of the microbiota of the mixed liquor and sludge in the system. As this happens, the strains can degrade the excess biomass. This excess biomass is responsible for the production of trapped gases, the result of anaerobic decomposition. The final result is increased system efficiency thanks to better degradation of organic matter, reducing sludge accumulation. All these benefits lead to improved wastewater quality in parameters such as BOD, COD, TSS, fats, and oils, among others.

Novomax **Treatment for activated sludge wastewater treatment plants (WWTP)** is an economically feasible solution that is also environmentally friendly. Its functioning mimics some of the natural phenomena occurring in self-purifying receiving bodies, such as rivers or lakes, where contaminant degradation processes are mediated by bacterial action. In the presence of dissolved oxygen in the water, aerobic microbiota develops which, without generating bad odors, facilitates these processes. This allows water bodies to maintain conditions suitable for aquatic life. However, the purification capacity of a river has limitations regarding contaminant load and the speed at which it can degrade them.

Novomax controls the conditions that affect the biological mechanisms with the aim of optimizing them and, in this way, reducing treatment time. Novomax multiplies the bacterial culture in suspension in activated sludge WWTPs. The purification mechanism is very simple: bacteria consume organic matter present in the water, incorporating carbon into their metabolism, which allows them to obtain energy to perform their functions. The bacteria form agglomerations denser than water, which facilitates their separation by sedimentation. Once this has occurred in a biological reactor, suspended bacteria pass to the sedimentation tank, where clarified water is separated, and bacterial flocs are deposited at the bottom. This sludge is then recirculated to maintain biomass levels in the reactor, ensuring the continuity of the biological process.

Application Instructions

Treatment Plants -

Flow Rate	Initial Dosage	Maintenance
Up to 0.1 L/sec	0.5 kg/day for 3 days	0.5 kg/week
Up to 0.5 L/sec	0.5 kg/day for 3 days	0.5 kg/day for 3 days
Up to 2 L/sec 5kg*	1.5 kg/week	1.5 kg/week
Up to 5 L/sec 8kg*	2.0 kg/week	2.0 kg/week
Up to 25 L/sec	15 kg* 0.25 kg/day for 3 days	15 kg* 0.25 kg/day for 3 days
Up to 50 L/sec	25 kg* 0.5 kg/day for 3 days	25 kg* 0.5 kg/day for 3 days
Up to 100 L/sec	50 kg* 1.0 kg/day for 3 days	50 kg* 1.0 kg/day for 3 days
Up to 500 L/sec	50 kg/100L/sec.*	50 kg/100L/sec.*
Up to 1200 L/sec	50 kg/100L/sec.*	50 kg/100L/sec.*
Up to 10.000 L/sec	30 kg/100L/sec.*	30 kg/100L/sec.*

Pour this initial dosage over a period of 10 days.

Add as regularly as possible, and if a day is skipped, double the dosage for the following day.

Dosage averages will vary according to flow rate, retention times, and system variations.

Activated Sludge Systems include different process flow schemes:

e.g.: extended aeration, contact stabilization, step aeration, and oxygen-activated sedimentation.

The application rate for all products is based on the average daily flow rate into the aeration tank, excluding the return sludge flow.

For more information on application, contact your Novomax technical representative.

SPECIFICATIONS:

- Packaging: Bucket with 50 sachets of 225 grams, water-soluble.
- Bucket weight: 24 Lbs (11 kg)
- Maximum Stability Loss: 1 log/yr
- pH 6.0 – 8.5.
- Bulk Density: 0.5 – 0.61 g/cm³
- Moisture Content: 15%



Description:
Brown-colored powder



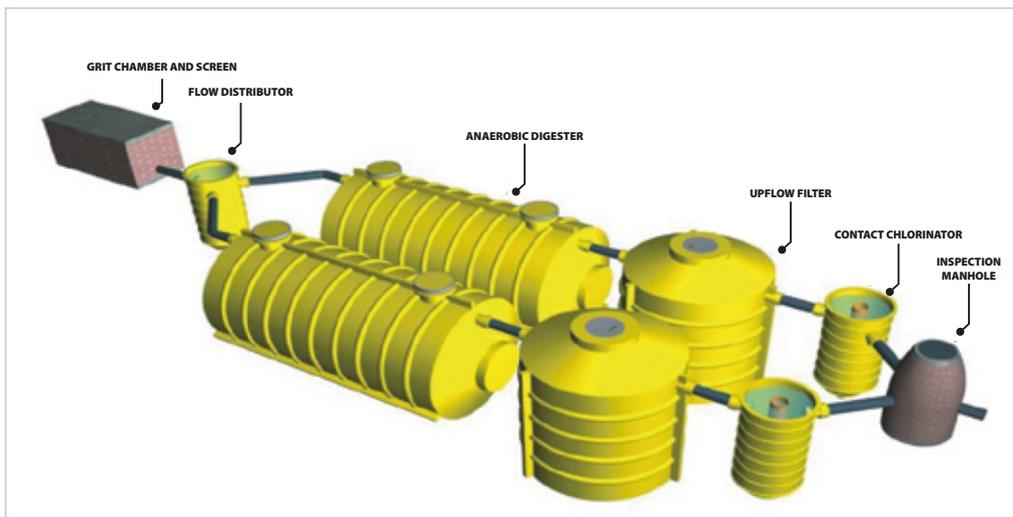
Ecological Treatment

Formulated with natural micronutrients that feed, strengthen, and enhance the bacteria that exist and grow in fats, accelerating the natural biodegradation process.

This highly efficient treatment disintegrates fats and organic solids, avoiding the need for constant cleaning or extractions. extracciones constantemente.

Objectives:

Digester of animal/vegetable waste, carbohydrates, oils, fats, cellulose, and other waste.



The bacteria in the plant degrade or decrease due to the use of soaps, chemicals, etc.