

NOVOMAX MicroN

Carrier	More than 100 different nutrients
Concentration	4 Billion CFU/gr.
Product Code	NOVOMAX MicroN
Storage and Handling	Store in a cool, dry place (41-77 °F / 5-25 °C). Keep container tightly closed.
Shelf Life	Two years if stored properly.

Product Specifications

- Physical Properties:
 - Color: Gray
 - Form: Powder
- Packaging:
 - 49 Lbs. (22 Kg) plastic pail, bulk



Application Guidelines

- Considerations for optimization:

	Range	Optimum
pH Range	4.5-9.0	6-8
Temperature	45-120 °F (20-40 °C)	59-104 °F (15-40 °C)



Common Applications

- Acceleration of waste digestion such as municipal, food, and dairy residues.
- Waste with high contents of fats and oils.
- Pulp and paper, filamentous problem.
- Hydrocarbons / wastewater.
- Soil amendments at the plant.
- Pharmaceutical residues.
- Anaerobic digesters.
- Soil remediation.



Concentrated Micronutrients

Wastewater often becomes depleted of key nutrients. Without these nutrients, natural biomass and bioaugmented microorganisms will reduce their efficiency. Microorganisms are only as strong as their limiting nutrient. While much attention is given to the Carbon-Nitrogen-Phosphorus ratio, not enough focus is placed on micronutrients.

Many types of waste, especially pharmaceutical, pulp and paper, food, and petroleum hydrocarbon waste, are depleted of key vitamins and minerals. Novomax MicroN provides a basal level of more than 100 essential vitamins and minerals necessary to support microbial life. Treatment becomes much easier through the regular dosing of Novomax MicroN, combined with the control of the 5 key parameters for any biological system.



Synergistic Work with Other Novomax Products

In real systems, bacteria alone do not reach their maximum potential unless they have the proper environment. Novomax MicroN acts as a nutritional catalyst, boosting the performance of any Novomax bacterial formula, reducing treatment time, and improving system stability.

It stimulates the production of degrading enzymes such as proteases, lipases, and cellulases, facilitating the breakdown of complex residues into simpler substances.

It promotes the elimination of difficult-to-degrade compounds, optimizing the efficiency of biological treatment processes.

Summary of Benefits when Combining MicroN with Other Novomax Products:

- Higher rate of contaminant degradation.
- More effective reduction of bad odors, BOD, COD, TSS, and ammonia.
- Increased bacterial resilience under difficult conditions.
- Optimization of performance in WWTPs, lagoons, biodigesters, and aquaculture systems.
- Shorter system stabilization time.



Dosage

The ideal dosage of Novomax MicroN may vary depending on the contaminant load and system conditions. The most recommended method is to determine it through respirometry tests or ATP analysis, which allow microbial activity to be measured and the product adjusted according to the system's response.

In the absence of these methods, a base dose of 1 pound (454 g) per million gallons of treated water can be applied, adjusting it according to the observed results. COD reduction or an increase in biological activity should be monitored as indicators of effectiveness.

- If the expected result is not achieved, the dose can be increased up to threefold gradually, while observing the system's response.
- The effective dose is usually between 1 and 500 ppm, depending on the type of waste, the amount of organic matter, and the condition of the biomass.