

NovoMAX AMMO

Carrier	Bran/Salt/Custom formulation
Concentration	4 Billion CFU/g
Product Code	NOVOMAX AMMO
Storage and Handling	Store in a cool, dry place (41–77 °F / 5–25 °C). Keep container tightly closed.
Shelf Life	Two years if properly stored

Product Specifications

- Physical Properties:
 - Color: Brown
 - Form: Powder
- Packaging:
 - 23 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 (15-45°C)

Description:

The treatment with Novomax AMMO is a blend of scientifically selected microbes designed to drastically improve the removal of ammonia in wastewater treatment operations. As a beneficial side effect, BOD/COD and sludge are also reduced. Through competitive exclusion, organic nitrogen is converted into amino acids, peptides, and aldehydes.

Novomax AMMO bacteria are hyperammonia accumulators, directly consuming ammonia and converting nitrates into elemental nitrogen, reducing nitrates in the discharge. It provides a product of 7 strains of Bacillus formulated to enhance phosphorus uptake, as well as reduce biological oxygen demand (BOD).

Novomax AMMO is a mixture of facultative anaerobic microbial cultures, which allows it to function with or without oxygen over a wide range of pH and temperature.

Applicable Uses

Ideal for use in wastewater with high ammonia content, treatment of leachate effluents in landfills, and industries such as:

- Paper industry
- Food and beverage industry
- Petroleum and steel industries
- Anaerobic reactors
- Meat and dairy industry

Dosage:

Apply from 0.5 to 5 ppm (mg/L) depending on the water characteristics. It is recommended to start at 0.5 ppm and increase over time to avoid accelerated sludge detachment. For any questions regarding application, contact your Novo Mundo specialist.

Daily Dosage Table:

Desired PPM	Kg	Lb
1	3.8	8.4
2	7.6	16.7
3	11.4	25.1
4	15.2	33.4
5	19.0	41.8

Benefits:

- Increases efficiency of the biological system.
- Reduces BOD levels.
- Reduces sludge generation and accumulation.
- Reduces foam problems.
- Improves system capacity.
- Improves floc formation.
- Increases phosphorus removal.
- Improves removal of fats and oils.
- Improves nutrient removal.

Case Study:

A food processing plant with a 0.75 MGD wastewater facility used two retention lagoons. The lagoon treated with Novomax AMMO showed a reduction in FOG, sludge, and a 76% decrease in nitrogen, improving system functionality. In another case, in China, landfill leachates with 850 mg/L of ammonia were reduced to less than 10 mg/L in 24 hours with Novomax AMMO.

Considerations:

- Complies with discharge limits to avoid fines and penalties.
- Eliminates ammonia odors and improves treatment system efficiency.
- Reduces sludge accumulation and improves reliability of WWTP effluent.

Conclusion:

The use of Novomax AMMO in wastewater treatment represents an efficient strategy to improve effluent quality without resorting to aggressive chemical methods. Its ability to optimize biological processes makes it a reliable alternative in diverse industrial sectors. By reducing the contaminant load and improving system stability, it facilitates compliance with environmental regulations and ensures long-term operational sustainability.



Algae Treatment:

Novomax AMMO Pond Treatment is a microbial blend designed to reduce the occurrence of surface algal blooms in lakes and ponds. The microbes in the product consume excess nitrogen and phosphorus in the water body, which allows algae to grow and thrive. The product does not directly affect aquaculture populations but reduces the amount of waste material, creating an overall healthier environment. PD is a patented blend of facultative anaerobic microbes that will drastically improve water clarity and reduce foul odors. Restore the natural beauty of your lakes and ponds today.

Characteristics:

- Accelerates the digestion of biomass/sludge and consumes excess nitrates and phosphates.
- The product does not directly affect aquaculture populations but reduces the amount of waste material, creating a healthier environment for aquaculture.
- Reduces ecological imbalances and bottom sludge resulting from fallen leaves, fish and animal waste, and runoff of organic and inorganic "non-point" nutrients from the surrounding watershed.
- Reduces harmful pathogens that also feed on waste material through the process of competitive displacement.
- Significantly reduces BOD, COD, and TSS levels and eliminates foul odors.



Product Presentation:

50 Lb pail. Bulk powder.



Applicable Uses:

Ideal for restoring ponds, lakes, inlets, coves, canals, and waterways, enhancing aesthetics and ecological balance, while greatly reducing the need for mechanical dredging and treatment with harmful chemical products.

