

# NovoMAX AMMO AQUACULTURE

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

### Product Specifications

- Physical Properties:
  - Color: Brown
  - Form: Powder
- Packaging:
  - 50 kg plastic pail, bulk



### Application Guidelines

- Considerations for optimization:

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

### Description:

Novomax AMMO Aquaculture treatment is a blend of scientifically selected microbes designed to enhance the removal of ammonia in aquaculture operations. As a secondary effect, it reduces BOD/COD and sludge. Through competitive exclusion, organic nitrogen is converted into amino acids, peptides, and aldehydes. Its bacteria act as hyperammonium accumulators, consuming ammonia and converting nitrates into elemental nitrogen, thus reducing nitrate levels in the discharge.

Its formulation with multiple Bacillus strains optimizes water quality and overall aquaculture health. In addition, its mix of facultative anaerobic microbial cultures allows it to function with or without oxygen across a wide range of pH and temperature.

When applied in aquaculture systems, it promotes the removal of ammonia, improving the growth and welfare of aquatic organisms such as shrimp, tilapia, and trout.



### Dosage:

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

### Mixing Instructions:

For optimal rehydration, dissolve Novomax AMMO Aquaculture in water and let it stand for 30 minutes, but no more than 8 hours before application. If rehydration is not possible, apply directly into the wastewater.

**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

**Applicable Uses:**

Ideal for use in aquaculture ponds, lagoons, and aquaculture production systems with high ammonia or organic residue content. It is also applicable in:

- Treatment of leachate effluents in landfills.
- High-density aquaculture systems.
- Restoration of water quality in ponds and lakes.

**Case Study:**

An aquaculture production system with a high ammonia load applied Novomax AMMO Aquaculture and achieved more than an 80% reduction in ammonia levels within 48 hours, improving water quality and the growth of aquatic organisms. In another case, a lagoon with high sludge accumulation reduced its BOD and TSS by 70% in less than one week.

**Considerations:**

- Reduces sludge accumulation and improves water quality.
- Decreases nitrogen levels in the discharge.
- Increases dissolved oxygen availability.
- Promotes biological balance in aquatic ecosystems.



**Conclusion:**

The application of Novomax AMMO AQUACULTURE has proven to be a highly effective biotechnological solution for controlling ammonia and reducing organic load in aquaculture systems. Documented case studies show reductions of over 80% in ammonia levels within just 48 hours, as well as decreases of up to 70% in BOD and TSS in less than one week. These results confirm the product's capacity to significantly improve water quality, stabilize microbial communities, and enhance the overall health and growth of aquatic organisms.

Beyond immediate water treatment benefits, Novomax AMMO AQUACULTURE also helps minimize sludge accumulation, reduce chemical and energy costs, and extend the sustainability of intensive aquaculture operations. By lowering the stress caused by high ammonia concentrations, it fosters better feed conversion rates, higher survival rates, and improved productivity.

In conclusion, Novomax AMMO AQUACULTURE represents not only a technical solution to critical water quality challenges but also a strategic tool for increasing operational efficiency and profitability, ensuring long-term environmental balance in aquaculture ecosystems