

# Nitrifying Bacteria

## Introduction

Nitrifying bacteria is a consortium of vigorous and specific microbes that when add to system, quickly increases the population to acceptable levels, and enables them to efficiently control the amount of ammonia present by oxidising it to nitrite and further breaking the nitrite down to nitrate.

It thrives in a wide range of wastewater types and responds quickly during upset conditions to restore nitrification. It contains the most outstanding, long-lasting, and consistence result to maintain discharge ammonia compliance.



## Composition

Specially formulated combination of Nitrosomonas spp. and Nitrobacter spp

Light brown powder, 1 Liter per foil bag;

Nitrifying rate 200 mgNH4-N L-1 H-1;

## Application

All kind of wastewater treatment with ammonia problem

## How does it work

Nitrosomonas converts ammonia and ammonium (NH<sub>3</sub>) to nitrite (NO<sub>2</sub>).

Then bacteria called Nitrobacter finish the conversion of nitrite (NO<sub>2</sub>) to nitrate (NO<sub>3</sub>), the process of converting ammonia into nitrate is known as Nitrification.

## Benefit

- ✓ Effective converts ammonia to nitrate in wastewater.
- ✓ Helps to meet ammonia consent levels.
- ✓ Reseed Nitrifying bacteria can speed up the nitrification, because naturally occurring Nitrifying bacteria are very slow growing bacteria;
- ✓ Enhance the nitrification process under toxic, inhibitory, or cold weather conditions;
- ✓ Upgrade ammonia reduction performance without extra footprint and equipment;
- ✓ Convert the harmful nitrite/ hydrogen sulfide/ ammonia nitrogen to harmless nitrogen and/or nitrogen oxide;
- ✓ 100% natural, chemical free, eco-friendly solution;

## Dosage & Method

Dosage rates vary to specific project information, please contact with us and we'll help you work it out.

Dissolve with water at 1: 20 ratios; keep settling 2 hrs for activation before dosing .

Routine dosing can keep performance.

## Condition

D.O ≥ 2 mg/L, Water temp: 15~45°C, pH: 6 ~ 9, Salinity <30000 mg/L

## Caution

Do not mix use with bleach, caustics, disinfectants or other chemicals



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## Packing and storage

24 months shelf life, Store in cool, dry location, keep out of direct sunshine and moisture. Once opened, should be use it within 30 days to prevent activation. Keep out of reach of children.