

Denitrifying Bacteria 3

SPECIFICATION

Cat.No.	EPB-019
Product Name	Denitrifying Bacteria 3
Product Ingredients	Denitrifying bacteria, enzyme preparations, activators, etc.
Product Format	Powder
Shelf Life	24 Months
Bacterial Content	10×10 ⁹ CFU/g
Application	Suitable for municipal sewage treatment plants, various chemical wastewater, printing and dyeing wastewater, landfill leachate, food wastewater and other industrial wastewater treatment anoxic system.
Efficacy and Effect	<ol style="list-style-type: none"> 1. It has high treatment efficiency for nitrate and nitrite, improves denitrification efficiency, and maintains the long-term stability of system denitrification; 2. This product can avoid the difficult treatment of waste water due to low temperature, and heat the waste water to make it reach the suitable temperature of microorganisms, so it greatly saves operating costs and reduces electricity consumption. This product can quickly recover from the chaotic state of denitrification caused by impact load and sudden factors at a water temperature of about 5°C; 3. Minimize the impact of the system with insufficient safety factor on denitrification and nitrification.
Usage Method	According to the water quality index of the biochemical system, the amount of industrial waste water added for the first time is 100-200 g/m ³ (calculated according to the volume of the biochemical pool). The dosage of strengthening biochemical system is 50-80 g/m ³ (calculated according to the volume of biochemical pool). The amount of municipal sewage added is 50-80 g/m ³ (calculated according to the volume of the biochemical pool).
Use Parameters	Tests have shown that the following physical and chemical parameters are most effective for bacterial growth:

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1. pH: The average range is between 5.5 and 9.5, and the fastest growth can be achieved between 6.6 and 7.4.
2. Temperature: It can take effect between 10°C and 60°C. If the temperature is higher than 60°C, the bacteria will die; when the temperature is lower than 10°C, the bacteria will not die, but their cell growth will be greatly restricted. The most suitable temperature is 26-32°C
3. Dissolved oxygen: In the aeration tank in sewage treatment, the dissolved oxygen amount is at least 0.5 mg/L; the metabolism and degradation speed of the target substance will be accelerated by 5-7 times.
4. Trace elements: Proprietary bacteria need many elements in their growth, such as potassium, iron, calcium, sulfur, magnesium, etc. Usually, soil and water sources contain sufficient amounts of the above elements.
5. Salinity: It is suitable for both seawater and freshwater, and can tolerate up to 6% salinity.
6. During use, care should be taken to control operating parameters such as SRT solid residence time, carbonate alkalinity, etc., so as to facilitate the product to play a better role.
7. Anti-toxicity: It can effectively resist chemical toxic substances, including chlorides, cyanides and heavy metals.

Note: When the contaminated area contains fungicides, their effect on microorganisms should be studied beforehand.
