



Wastewater

# HYDROCARRIER™ EN

**HydroCarrier™ EN** is a mineral based micro-carrier that pulls ammonia nitrogen into its interior to allow for a continuous enriched supply of ammonia nitrogen to the nitrifying bacteria that colonize its surface. The colonization of nitrifying bacteria onto the surface of **HydroCarrier™ EN** will allow for a greater density of these bacteria within the biomass of a wastewater system.

**HydroCarrier™ EN** can be introduced into a wastewater system prior to the loss of nitrification, such as during cold weather periods, or it can be introduced into wastewater systems that are currently experiencing a loss in nitrification. The introduction of **HydroCarrier™ EN** into an activated sludge system will greatly increase the nitrification capacity of that wastewater system and assist in addressing both loss of nitrification due to cold wastewater temperatures and/or waste stream toxicants.

## Helps With:

- Wastewater toxicity
- Loss of nitrification
- Biomass retention
- Nitrobacter/Nitrosomonas
- Ammonium removal

## Benefits:

The surface area available for bacterial activity is exponentially increased by hundreds of thousands of square feet for each cubic foot of material added to the wastewater.

Nitrification is increased as the charge of **HydroCarrier™ EN** attracts ammonium into its core where it is consumed by high concentrations of nitrifying bacteria.

## How It Works:

- Stays dispersed in actively mixed wastewater, enmeshes into floc to provide surface area for the colonization of nitrifying bacteria.
- Attracts ammonia nitrogen and micronutrients into its catacomb interior that stimulate the growth of nitrifying bacteria on its surface.
- Creates high density bacteria colonies on surface areas, improves settling in clarifier, and reduces toxicity to nitrifying bacteria.
- Increases system ammonia nitrogen load capacity and has a balancing effect for ammonia nitrogen influent spikes.

**HYDRO SOLUTIONS, INC** exists to provide solutions to customers in the air and water treatment industries. We are dedicated to offering customized plans, products, and services to ensure our customers meet their air and water discharge permits while operating their systems at optimum efficiency.

**For more information regarding prevention or correction of nitrification loss or other wastewater treatment solutions, visit [hydrosolutions.com](http://hydrosolutions.com) or contact our wastewater treatment specialists at 502-889-7107.**

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**HYDRO**  
**Solutions**

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