NutriGone™ -S and S+

Environmental Media By

EcoSense International

NutriGone™-S is an industry-leading series of bio-active filter media for the treatment of stormwater, surface water, and wastewater. The three varieties of NutriGone™-S target bio-nutrients, heavy metals, emerging contaminants, and suspended solids for a variety of project needs.

Where to use NutriGone™?

- Swales
- Side-bank filters
- Gabion filters
- Rain gardens
- Up-flow filters
- Pond and stream restoration
- Large Earthwork filters
- Planter soil amendments
- Agricultural field barriers
- Constructed wetlands
- Dredge spoil leachate
- Baffle Boxes
- Crossflow filters
- Landfill leachate filters
- Drainage fields
- Infiltration systems
- Lake and pond filtration
- Soil nutrient and water adsorption

NutriGone™-S

- All-natural, non-toxic, bio-active, sand-based filter media
- Highly efficient for standard nutrient reduction

NutriGone™-S+ and NutriGone™-S+603

- NutriGone™-S+ and NutriGone™-S+603 are engineered with ZVI for enhanced nutrient removal
- NutriGone™-S+603 is formulated to improve permeability-hydraulic performance, and faster draw-downs while retaining high nutrient removal performance.

Species Removed	Nutrigone™-S	Nutrigone™-S+	Nutrigone™-S+603
Total Phosphorus (TP)	55%	95%	95%
Nitrates and Nitrites (NOx)	57%	96%	Over 94%**
Total Kjeldahl Nitrogen (TKN)	44%	Over 72%**	Over 76%**
Total Nitrogen (TN)	45%	Over 99%**	Over 98%**
Total Suspended Solids (TSS)	90%	90-95%	90-95%
PFOA	Over 99%*	Over 95%*	Over 95%*
PFOS	Over 99%*	Over 97%*	Over 97%*

*PFOA and PFOS removal rates are based on external studies
** Below detectable limits after filtration

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NutriGone™ -S and S+ EcoSense International

Biochar-amended filters are "**lower-cost and more sustainable** yet similarly effective" compared to activated carbon filters. - Royal Society of Chemistry, Higgins et al., 2024

NutriGone™ bio-active filtration media installed at the Florida Institute of Technology.

Specifications	Nutrigone™-S	Nutrigone™-S+	Nutrigone™-S+603
Permeability	0.46 in/min	1.13 in/min	1.13 in/min
Hydraulic Retention Time (HRT)	30-60 min	13.5 min	13 min
Phosphorus Adsorption Capacity*	2.48 mg/g	19.24 mg/g	20.11 mg/g

*Based on external studies

Swale installation featuring NutriGone™ bio-active filtration media for enhanced stormwater treatment.

The improved phosphorus capacity from the addition of ZVI can be attributed to its "**high reducibility and adsorption properties**." - Chang'an University, Zhang et al., 2024

"The combined application of ZVI and BC (biochar) **increased sediment total nitrogen (TN)** and **organic matter (OM) removal** efficiency" and "enhanced sediment nitrogen removal by promoting heterotrophic denitrification" - Journal of Environmental Chemical Engineering, Ren et al., 2024

Large swale installation featuring NutriGone™ bio-active filtration media for enhanced stormwater treatment.

CONTACT US FOR PRICING AND BULK DELIVERY OPTIONS

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