

AquaGATE⁺ CLINO

Background

AquaGate+CLINO is a patented, composite-aggregate technology resembling small stones that is typically comprised of a dense aggregate core. In this application of the technology, a powdered zeolite based clinopilolite mineral coating is utilized (Figure 1) with varying percentages of additive layer by percent of total weight.

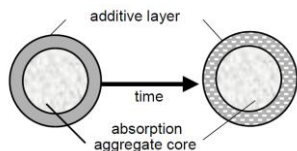


Figure 1. Configuration of CLINOPTILOLITE-coated particle.

AquaGate+CLINO serves as a delivery mechanism to reliably place reactive treatment and adsorptive materials into aquatic environments.

Ammonia Adsorption Material



Product Specifications

Aggregate:	Nominal AASHTO #8 (1/4-3/8") or custom-sized to meet project-specific need * Limestone or non-calcareous substitute, as deemed project-appropriate
Clinoptilolite:	Powdered – Approximate 200 Mesh <ul style="list-style-type: none"> o Modified Zeolite Clay; Modified Natural Mineral (Clinoptilolite) o Light Brown Powder; Odorless Manufacturers – Product Designation <ul style="list-style-type: none"> o Hydrosil International – HS200 * Formulations Range from 5–30% by weight
Ammonia Adsorption:	From 0.5 – 1.5% of the Clinoptilolite quantity by weight
Binder:	Cellulosic polymer
Permeability:	1×10^{-2} to 1×10^{-5} cm/sec
Dry Bulk Density:	75 – 85 lbs/ft ³
Moisture:	10 – 20% (maximum)



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