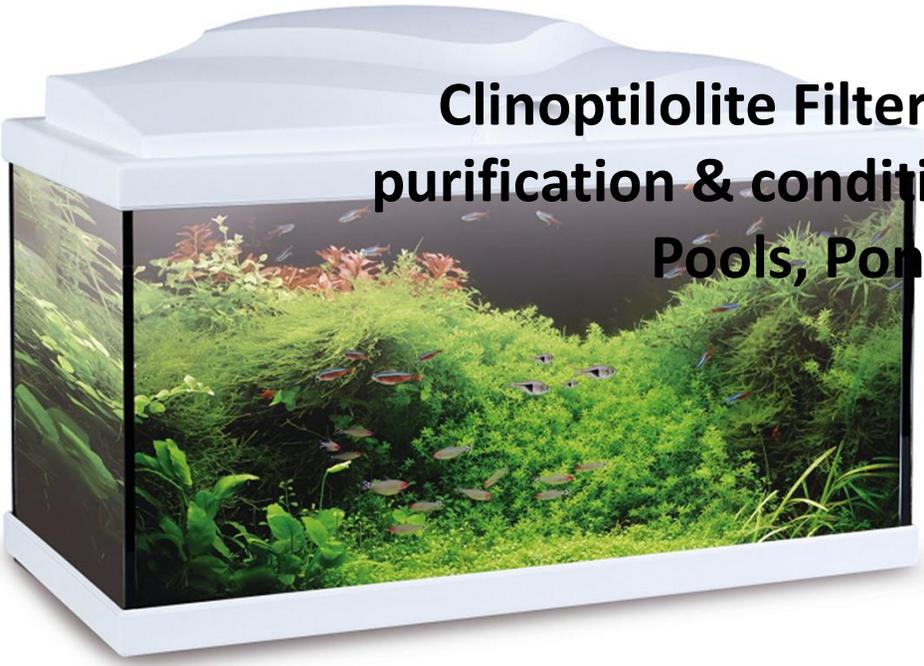




VSP Filter Clino



Clinoptilolite Filter Medium for Water purification & conditioning in Aquaculture, Pools, Ponds & Lakes.



VSP Filter Clino

VSP Filter Clino is a 100 % natural mineral formed of clinoptilolite type zeolite. It is superb when used as a filter for ponds, lakes, pools of all sizes.

Millions of years ago zeolite were formed when a chemical reaction between ash and lava spewing from volcanos reacted with lakes and sea water it came into contact with. Depending on the temperature, geological locations and the water / ash ratio each type of zeolite has its own unique specifications. So far 50 natural zeolite types have been identified, each with different compositions. Clinoptilolite is one of the purest, is also one of the best and now used for an extremely wide range of purpose across many business sectors.

Technical Details:

TETRAHEDRAL MOLECULAR SIEVE STRUCTURE

The structure of zeolites is similar to a cage consisting of 2-10 Å size channels in which water and various cations are found.

CLINOPTILOLITE



CAS No: 12173-10-3

EINECS No: 215-283-8

Cation Exchange Capacity (CEC)

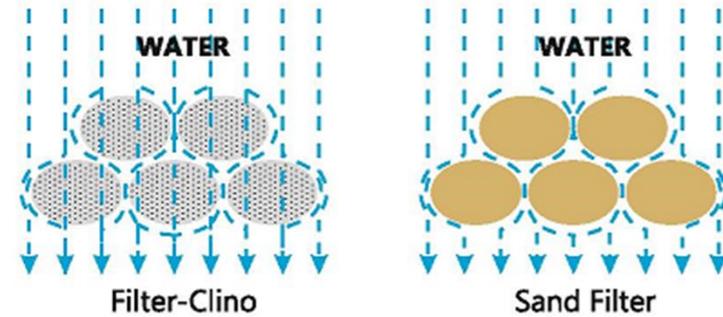
Cations have weak bonds when connected to Clinoptilolite, therefore it is easy for cations to exchange places. This rare property gives clinoptilolite the ability to bind to NH_3 and other heavy metals.

PROPERTIES

- With its high cation exchange capacity, tetrahedral molecular sieve & crystalline structure, Filter-Clino is an excellent filter medium.
- It can filter particles up to the size of 3 μm and bind to undesirable cations such as Ca, Mg, Pb, Hg, As, & Cd through CEC.
- It also filters Ammonia, which originates from perspiration and urine.
- While traditionally sand can filter particles from 30-40 μm size, Filter-Clino can capture particles down to 3 μm .
- If Filter-Clino is compared to sand when used in an identical pool as a filter medium, it is far more efficient.
- Clinoptilolite's porous structure makes it far lighter than sand.
- In terms of filter maintenance, it requires far less maintenance (in terms of backwashing), which results in water and energy saving.
- Prevents the formation of Chloramines.
- Prevents the formation of bad odours.
- The binding of ions such as Ca and Mg through CEC decreases water hardness.
- Prevents the formation of algae.
- Prevents red eye & irritation.
- It filters the oocytes of Cryptosporides that are not eliminated by disinfectants.



FILTER-CLINO COMPARISON WITH SAND FILTER



VSP Filter Clino Comparison with Sand Filter

	VSP Filter Clino	Sand Filter
Filtering of Heavy Metal	+	-
Filtering of NH ₃	+	-
Size of Microns it can Filter	3-5 μm	30-40 μm
Reduction of Chlorine Usage	++	+
Reduction of Bacteria	++	-
Reduction of Algae	++	-
Reduction of Chloramines	++	-
Reduction of Backwashes	++	-
Increase in Clarity of Pool Water	++	+
Balancing of Pool Water pH	+	-
Reduction of water Hardness	+	-



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