

filter
media

FerroSorp® Plus

Filter material for the removal of phosphates and silicates from sea- and saltwater aquariums and garden ponds

The problem

Together with nitrates, phosphates form one of the main nutrients for algae. Excessive phosphate concentrations therefore promote undesired growth of algae in sea- and saltwater aquariums. Algae are often present in water in the form of free-floating monocellular organisms and produce a visible green water coloration. In addition, algae can form greenish or brownish on the aquarium glass panes, or can occur in the form of thread or brush algae growth on water plants.

Fish food is the main source of phosphates in aquarium water. However, the tap water used to fill aquariums often contains phosphate in concentrations that can also promote increased algae growth.

The solution

FerroSorp® Plus is a high-performing adsorption granulate based on iron hydroxide. It was specifically developed for adsorptive removal of phosphate and silicate from water in fresh- and saltwater aquariums and garden ponds. Due to its large surface of app. 270 m²/g, it can bind phosphate ions quickly, effectively and irreversibly as a filter medium.

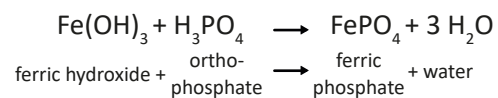
FerroSorp® Plus is on offer in different grain sizes and can therefore be used both in special filter cartridges which operate on the suspension bed filter principle and in filter bags that can be inserted conveniently into any multilayer filter. In addition to phosphates and silicates, **FerroSorp® Plus** also binds harmful heavy metal ions such as lead, copper and zinc.



FerroSorp® Plus in different granular sizes

Dissolved organic water contaminants can also be bound by adsorption.

The following reaction formula presents the reaction of ferric hydroxide with phosphate ions in simplified form:



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Required quantities

The phosphate binding capacity of FerroSorp Plus depends on a range of parameters such as the grain size used, the phosphorus concentration, the presence of competing ions (silicate) and the operating conditions in the filter. In practice, load rates between 5 and 15 g phosphorus per kg **FerroSorp® Plus** are achieved. Under normal feeding conditions, a FerroSorp® volume of 400 g should be replaced app. once every six months in a 200 litre aquarium occupied with 1 cmfish per litre.

The phosphorus concentration in water should be checked regularly using a commercial tester. If a renewed increase in the phosphorus concentration is detected, the filter medium should be replaced.

Used filter granulate can be employed as plant fertilizer or disposed of with household waste.

the advantages

- High cleaning performance at low cost
- High load rates due to highly porous surface
- Universally suited for use in different filter systems

**We gladly advise
you individually!**

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The difference



Aquarium with FerroSorp®-filter

- clear water
- clean glass panes



Aquarium without FerroSorp®-filter

- turbid water
- algae deposit on glass panes

