

**ZOOTECH**

Aqua & LSS Specialists for Zoos & Aquaria

## Aquatech Dephos - Phosphate Remover

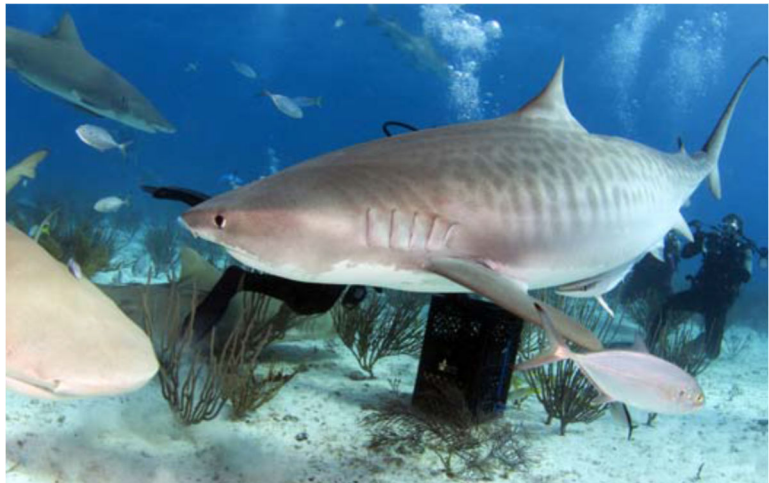
Aquatech Dephos is a high-performing adsorption granulate based on iron hydroxide. It was specifically developed for adsorptive removal of phosphate and silicate from water in fresh and seawater aquariums and garden ponds.

Due to its large surface area of over 250m<sup>2</sup>/g, it can bind phosphate ions quickly, effectively and binds them irreversibly to the filter medium.

All of the production facilities are audited yearly to international standards and the special production and drying procedure of Aquatech Dephos makes it a very robust, stable, long lasting media and highly reactive to phosphates.

Whereas competitors use fine particles to achieve effectiveness, Aquatech Dephos is more effective not because of fine particles, but because of the nanosized porous internal structure and surface.

Aquatech Dephos is available in two different grain sizes and can therefore be used both in special filter cartridges which operate on the suspension bed filter principle and filter bags that can be inserted in any multi-layer filter.



The advantage of Aquatech Dephos over other media is its large adsorption surface. This makes the Aquatech Dephos media many times more effective than competitors small surface areas.

**Aquatech Dephos** is a specially manufactured ferric hydroxide FeO(OH) granular material for aquatic systems.

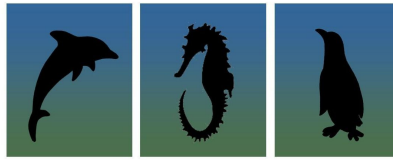
**Aquatech Dephos'** stable form and reactivity remain under long term aqueous conditions.

**Aquatech Dephos** rapidly removes phosphates, arsenic, copper, selenium, chromate and other heavy metals from aquatic water systems.

**Aquatech Dephos'** unique nano-sized porous surface structure has over 250m<sup>2</sup>/g ensuring super efficient absorption in all applications and systems.

**Aquatech Dephos** is ideal for aquariums both small and large as well as ponds. In fresh water, Aquatech Dephos will absorb Phosphates 12-16g/kg, Heavy Metals 5-8g/kg.

**Aquatech Dephos** is ideal for large applications with thousands of m<sup>2</sup> of water per day. The media is very stable and does not create clumps.



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## Aquatech Dephos - Phosphate Removal

The media is not soluble in fresh or sea water. The phosphate binding capacity of **Aquatech Dephos** depends on a range of parameters such as the grain size used, the phosphorous concentration, the presence of competing irons (silicates) and the operating conditions in the filter. In practice load rates between 5 - 16g phosphorous per kg **Aquatech Dephos** are

Rinse the granulate thoroughly under flowing water so that any dust formed during transport is removed. A layer of filter cotton should be placed before and behind the filter packed bed so that the granulate is protected from contamination & to avoid possible discharge of particulate matter into the aquarium or pond. The approach velocity of the water in the filter should not exceed 35m/h. Otherwise, undesirable movement of the granulate grains may occur which results in abrasion. It is recommended to keep the filter flow as low as possible in order to achieve the best results. If necessary reduce the flow rate.

	To remove 1ppm of Phosphate (PO4) from volume of Freshwater		To remove 1ppm of Phosphate (PO4) from volume of Saltwater	
Pack Size	Litres	Gallons	Litres	Gallons
100g	3,000 litres	660 gals	1,500 litres	330 gals
250g	7,500 litres	1,650 gals	3,750 litres	825 gals
500g	15,000 litres	3,300 gals	7,500 litres	1,650 gals
1 kilo	30,000 litres	6,600 gals	15,000 litres	3,300 gals
5 kilo	150,000 litres	33,000 gals	75,000 litres	16,500 gals
	To remove 2ppm of Phosphate (PO4) from volume of Freshwater		To remove 2ppm of Phosphate (PO4) from volume of Saltwater	
Pack Size	Litres	Gallons	Litres	Gallons
100g	2,000 litres	440 gals	1,000 litres	220 gals
250g	5,000 litres	1,100 gals	2,500 litres	550 gals
500g	10,000 litres	2,200 gals	5,000 litres	1,100 gals
1 kilo	20,000 litres	4,400 gals	10,000 litres	2,200 gals
5 kilo	100,000 litres	22,000 gals	50,000 litres	11,000 gals
	To remove 3ppm of Phosphate (PO4) from volume of Freshwater		To remove 3ppm of Phosphate (PO4) from volume of Saltwater	
Pack Size	Litres	Gallons	Litres	Gallons
100g	1,000 litres	220 gals	500 litres	110 gals
250g	2,500 litres	550 gals	1,250 ltrs	275 gals
500g	5,000 litres	1,100 gals	2,500 ltrs	550 gals
1 kilo	10,000 litres	2,200 gals	5,000 ltrs	1,100 gals
5 kilo	50,000 litres	11,000 gals	25,000 ltrs	5,500 gals