



PŪRA PHOSLOCK. Tech Fact & Specifications.

WHAT IS IT? Modified Granulated Ferric Hydroxide Oxide (GFH) – phosphate, silicates, arsenic and heavy metal remover.

COMPOSITION: Fe(OH)O, granules in fully hydrated form.

PURPOSE: To be used in fresh and salt water aquariums to remove large quantities of phosphate, silicates, arsenic and some heavy metals.

BENEFITS: Maintains extremely low to non-measurable levels of phosphate and silicates thus greatly reducing propagation of algae.
Removes arsenic and other heavy metals.
Safe for the most delicate invertebrates – does not contaminate water with iron.
Extremely low impact on trace elements and desirable fertilizers like potassium.
Non-leaching, permanently and irreversibly binds phosphate and silicates.

Convenient to implement, comes with a 6" x 12" 300-micron media bag.
Available in four sizes: 150 g, 454 g, 795 g and 1135 g.

COMPARISONS: Comparison of different phosphate removing products marketed for use in aquarium applications is challenging for one main reason: all phosphate removing medias are designed for use in "open-loop" applications such as cleanup of drinking and waste waters, where contaminated water passes through the media bed only once. Use of such medias in aquariums is greatly complicated as aquariums are "closed-loop" systems, where water passes through the media repeatedly. PhosLock is the first and the only phosphate removing media that utilizes GFH specifically modified for use in "closed-loop" applications. Let us review some data on testing media performance in a real aquarium application.

We will not be comparing white colored phosphate removers such as Phosphate Sponge and Phos Guard with medias based on GFH, as white colored or aluminum oxide based medias release phosphate back into aquarium upon reaching their sorption capacity, thus are not perfectly suitable for use in aquariums.

Comparing to products such as PhosBan and Rowaphos, PŪRA PhosLock is 10% more effective than PhosBan and 3.0% more effective than Rowaphos in removing phosphate from fresh and saltwater. It seems that all three brands perform very similarly in removing phosphate, but this is not the entire picture.

Large quantities of free iron in aquariums are known to cause permanent damage to fish gills. PhosLock is much harder and far less prone to disintegration in high flows compared to the other brands. Over 72 hrs of use one gram of PhosLock releases less than 0.02 mg of iron comparing to 3.7 mg per gram of Rowaphos and 98.8 mg per gram of PhosBan. That is 185 times less than Rowaphos and 4940 times less than PhosBan.

Recently appearing on the pet markets granulated and palletized medias based on Bayoxide E33 product are about 14% less effective in removing phosphate and release 270 mg of iron per gram of media – that is staggering 13500 times more than PhosLock.

FAQ:

How do I use PhosLock? PhosLock can be placed into any media reactor. Confined into enclosed mesh bag, PhosLock can be placed into any canister or wet/dry filter.
How long will it take for phosphate level to fall? ... If PhosLock is placed directly into the flow of water with no bypass it usually takes 24 to 48 hrs for significant reduction.