

# AQUA MARIN

## **AquaMarin Bio Pearls Information and Directions for Use**

*AquaMarin Bio Pearls* have been specifically researched and manufactured for use in aquaria. Our pearls are manufactured to the highest quality standards from a pure polymer source. They also contain a buffer which will help to maintain a stable PH.

*AquaMarin Bio Pearls* work by supplying a breeding ground and food source for de-phosphorising and de-nitrifying bacteria. The pearls provide these bacterial strains with the essential nutrients needed for successful growth acceleration. This massive acceleration of beneficial bacterial growth, promotes rapid clarification and purification of the water column hence reducing unwanted Phosphates and Nitrates. These unwanted nutrients are converted to a state easily exported from your system via a protein skimmer.

### **Directions for use:**

Use approximately 100 – 150ml of *AquaMarin Bio Pearls* per 100 litres of system volume and for best results they should be fluidised in an appropriate reactor. We recommend not to add all of the pearls at once but instead gradually. This will ensure slower system adaptation and reduce the likelihood of shock from stripping nutrients from the water column too quickly.

- Begin by using half the recommended amount. Day 1: Add 50ml of *AquaMarin Bio Pearls* per 100 litres of system volume, run these in for at least 1 -2 weeks (bedding in period) or until your nutrient levels begin to fall. Then top up the pearls weekly until you have approximately 100-150ml per 100 litres of system volume.

- If your nutrient levels are high to begin with, start off with an even smaller initial amount and build up slowly. This will stop nutrient levels being stripped out too quickly.
- Try and feed the effluent (output) of the reactor into, or as close to a protein skimmer intake as possible. This will ensure the maximum export of bacterial mulm and nutrients.
- If possible limit the use of Ozone, at least during the first 2-6 weeks of use. This will ensure maximum bacterial recruitment and uptake.
- Always maintain sufficient flow through the pearls to keep them moving. Insufficient flow may result in the pearls sliming up and turning into an anaerobic state which could produce hydrogen sulphide.
- Also please remember that you will essentially end up with a low nutrient system. As a result we recommend adding coral food on a regular basis to nourish your corals and keep them fit, colourful and healthy.

### **Measuring reference:**

1 litre of pearls	=	approx 880 grams
150ml of pearls	=	approx 132 grams
50ml of pearls	=	approx 44 grams

Packaged in the UK on behalf of AquaMarin  
Supplied exclusively by Maidenhead Aquatics, PO Box 292,  
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[www.fishkeeper.co.uk](http://www.fishkeeper.co.uk)