



AQUATIC WATER CARE

# AquariumZEO

NATURAL ZEOLITE FILTER MEDIA

Fish deserve  
clean water.



01 CAPTURE

02 CONTAIN

03 CARE

01 / WATER CARE

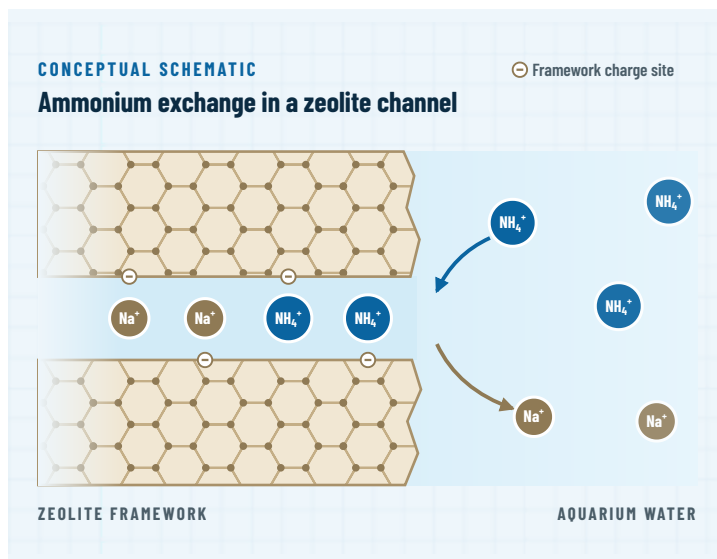
# SMALL GRAINS. A BIG ROLE IN WATER CARE.

## Clean water is more than clear water.

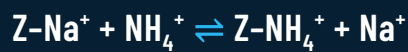
Ammonia can be present even when an aquarium looks clear. AquariumZEO uses natural clinoptilolite zeolite to capture ammonium ( $\text{NH}_4^+$ ) by ion exchange, helping manage the ammonia load in freshwater aquariums.



## AMMONIUM CAPTURE BY ION EXCHANGE



### ION EXCHANGE



Z = zeolite framework. Sodium is shown as one example of the exchangeable cations held in clinoptilolite ( $\text{Na}^+$ ,  $\text{K}^+$ ,  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ ).

### TOTAL AMMONIA



Free ammonia ( $\text{NH}_3$ ) and ammonium ( $\text{NH}_4^+$ ) together form total ammonia. Their balance shifts with pH and temperature.

The exchange is reversible: added salt supplies sodium ions that can release captured ammonium.



### CAPTURE

Helps reduce dissolved ammonium in freshwater.



### CONTAIN

Fine 1–2 mm granules for a secure media bag or cartridge.



### CARE

Use alongside biological filtration and regular water testing.

## 02 / PRODUCT & USE

# SMALL GRAINS. THOUGHTFUL FILTRATION.



AquariumZEO combines natural mineral ion exchange with a fine granular format. Use it as part of a complete aquarium care routine.

## PRODUCT AT A GLANCE

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| <b>Product</b>               | AquariumZEO                                               |
| <b>Material</b>              | Natural zeolite, clinoptilolite-based                     |
| <b>Grain size</b>            | 1–2 mm                                                    |
| <b>Core function</b>         | Ammonium ( $\text{NH}_4^+$ ) capture by ion exchange      |
| <b>Primary positioning</b>   | Freshwater aquariums and aquarium filtration              |
| <b>Installation</b>          | Retained media bag, cartridge or suitable filter chamber  |
| <b>Dose and service life</b> | Depend on ammonia load, water chemistry and filter design |



## PUT AquariumZEO TO WORK



**01**

### SOAK FOR 10 MINUTES

Before first use, soak the AquariumZEO cartridge in fresh water for 10 minutes to wet and condition the media. Keep granules securely retained.



**02**

### RINSE FOR 10 MINUTES

Then rinse the cartridge with fresh water for 10 minutes to flush out transport dust and loose fines before installation.



**03**

### PLACE & CIRCULATE

Position after mechanical prefiltration. Allow even flow through the media; avoid tight packing, bypass and vigorous tumbling.



**04**

### TEST & REPLACE

Check total ammonia, pH and nitrite. Replace media when control declines. Keep the biological filter operating.

**IN THE  
FILTER**

Aquarium water



Mechanical prefiltration



**AquariumZEO**



Return to aquarium

# MATCH THE MEDIA TO THE WATER.

AquariumZEO is positioned for freshwater aquariums and aquarium filtration.



## Freshwater aquariums



### CORE APPLICATION

Freshwater is the core application.



## Marine, reef & brackish



### VALIDATED PROTOCOL

Salt and competing ions affect ammonium exchange; marine, reef and brackish use require a validated system-specific protocol.



### IMPORTANT

## Do not add salt to water containing ammonium- loaded media.

Sodium competes for the exchange sites and can release captured ammonium back into the water.

## PART OF A COMPLETE AQUARIUM CARE ROUTINE



### AquariumZEO

Ammonium ( $\text{NH}_4^+$ ) capture  
by ion exchange



### Biological filtration

Keep the biological filter  
operating.



### Water changes

Use with routine water  
changes.



### Water testing

Check total ammonia, pH  
and nitrite.

Use with routine water changes and suitable biological filtration. No direct nitrate or phosphate removal is claimed. Dose, capacity and replacement interval require AquariumZEO-specific validation.

## AquariumZEO

Natural zeolite filter media. Fish deserve clean water.

**WATCH**  
WATCH WATER  
*a Water Company*

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