

# Filox-R™

## Iron, Hydrogen Sulfide, and Manganese Removal



### Filox-R™ media

Filox-R™ media is an economical Iron and Hydrogen Sulfide filtration media that out performs traditional Greensand and Birm.

### Features & benefits

- Superior high efficiency media for filtration and removal capabilities
- No oxidizing chemicals needed for regeneration.
- High efficiency with 80% manganese dioxide for enhanced performance and capacity.
- Effective, from 5.0 pH to 9.0 pH
- Highest flow rate of any standard iron removal media.

### Operating Conditions

Active Ingredient	75-85% Manganese Dioxide
Service Flow	6 gpm/cu.ft.
Freeboard	30-50%
Backwash rate	12-15 gpm/sq.ft @ 60F
Bed depth	20 inch Minimum
pH Range	5.0 – 9.0
Screen size	12 x 40
Bulk density	114 lbs/cu.ft.
Removal Capacity	
Iron	15.0 ppm
Hydrogen Sulfide	7.0 ppm
Manganese	3.0 ppm

### Comparitive information

Product Name	Active Ingredient	Relative life
Birm	< 0.01% Manganese Dioxide	1
Greensand	0.5% Manganese Dioxide	50 X birm
Filox-R™	75% - 85% Manganese Dioxide	7500X birm



### Ordering information

Part Number	Description	Cubic foot	Weight (Lbs.)	Package	Pallet Qty
A8033	Filox-R™ media	0.5	57	Bag	37

The use of additional oxidizing agents (oxygen, chlorine, ozone, hydrogen peroxide, potassium permanganate, etc.) is recommended. Oxidizers will not adversely affect Filox-R™. As a matter of fact, they will enhance its performance. They super-oxidize the media, which enables Filox-R™ to perform quicker and keep cleaner. It is always a safe practice to install an oxidation method upstream (in front) of the Filox-R™ bed.

### Testing for ORP

Oxidation Reduction Potential (ORP) can be the most important factor to take into consideration in certain waters. Highly reducing waters may cause premature exhaustion or even destruction of the Filox-R™ bed. Precautions can be taken prior to installation that can prevent ORP problems. Use one of the screening tests and follow the instructions below if the subject water has reducing properties that will require additional oxidants.

### Simple test

Mix 1.75 ounces (50 grams) water with 0.75 ounces (22 grams) of potassium permanganate crystals. Then take 2 drops of the mixture and stir into a fresh 1/4 gallon (1 liter) sample of the subject water. Let the subject water stand for 15 minutes. If the pink color remains, Filox-R™ can be installed without additional oxidants. If the pink color disappears, additional oxidants will be needed for Filox-R™ to function properly.

### ORP meter test

Note: Must use a calibrated ORP meter. Any reading that is above a negative 170 millivolts indicates that Filox-R™ can be used effectively without additional oxidants. Any reading falling below a negative 170 millivolts indicates that additional oxidants will be required.