

Iron, Hydrogen Sulfide, and Manganese Reduction

Filox™ Media

Filox™ 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 typically needed for regeneration (See Testing For ORP below)
- High efficiency with 80% manganese dioxide for enhanced performance and capacity.
- Effective, from 6.5 pH to 9.0 pH
- Highest flow rate of any standard iron removal media.

Operating Conditions

Active Ingredient	75-85% Manganese Dioxide
Max Service Flow	6 gpm/cu.ft.
Freeboard	30-50% of bed depth
Backwash rate	Backwash rate 16-30 GPM/sq.ft, depending on application specific variables, minimum recommended bed expansion is 15%
Bed depth	20 inch Minimum
pH Range	6.5 – 9.0
Screen size	12 x 40
Bulk density	110 lbs/cu.ft.
Removal Capacity	
Iron	10 ppm
Hydrogen Sulfide	3 ppm
Manganese	5 ppm

Comparative Information

PRODUCT NAME	ACTIVE INGREDIENT
Greensand	0.5% Manganese Dioxide
Filox™	75% - 85% Manganese Dioxide

Ordering Information

MODEL NO.	DESCRIPTION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A8033	Filox™ media	0.5	55	38

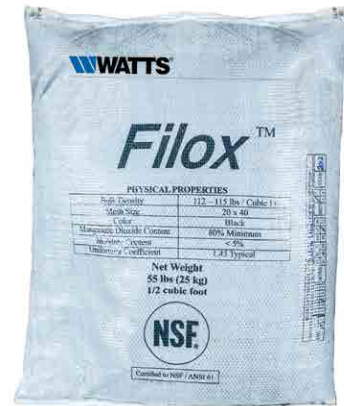
The use of additional oxidizing agents (oxygen, chlorine, ozone, hydrogen peroxide, potassium permanganate, etc.) is recommended. Oxidizers will enhance the performance of Filox™. They oxidize the media, which enables Filox™ to perform quicker and keep cleaner. It is always a safe practice to install an oxidation method upstream (in front) of the Filox™ bed. Do not exceed 4 ppm free chlorine in the feed water stream or bed damage may occur.

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™ 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.

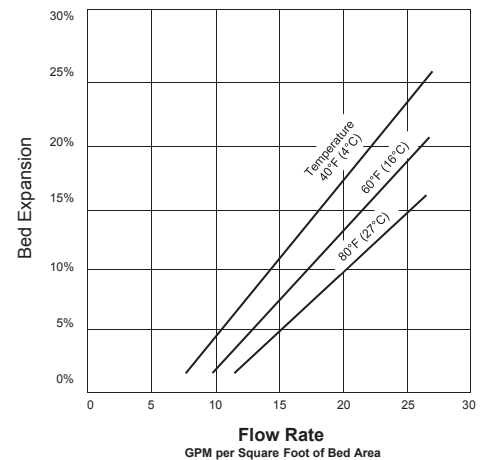
NOTICE

Watts recommends a small scale pilot test anytime the use of oxidizing agents are in question.



Certified to
ANSI/NSF
Std. 61

Filox Backwash Bed Expansion



Simple Filox™ ORP Test Kit #T10496 Instruction

1. Rinse bottle provided with sample water to be tested
2. Place sample water into bottle up to the fill line
3. Invert reagent dropper bottle 3 times to ensure it is thoroughly mixed
4. Remove reagent cap and add 1 drop of reagent into the bottle containing water sample
5. Cap sample bottle and invert
6. Let solution stand for 15 minutes
7. If solution remains pink, Filox™ can likely be used without using additional oxidizers
8. If solution does not remain pink and turns yellow or clear, additional oxidizers such as chlorine should be added upstream of the Filox™ system.

Note: If treating high levels or multiple contaminants, additional oxidants may be required even if the water passes this simple test.

ORP Meter Test

NOTICE

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

See disclaimer on inside front cover