

**A mined ore, Pyrolox® effectively reduces iron, sulfur and manganese from problem water.**

# Pyrolox®

A naturally mined ore, Pyrolox® is a mineral form of manganese dioxide which has been used in water treatment for more than 75 years. Pyrolox is a granular filtration media for hydrogen sulfide, iron and manganese reduction. Pyrolox functions as a catalyst, but itself remains relatively unchanged.

Pyrolox works on a principle whereby the hydrogen sulfide, iron and manganese are oxidized and trapped on the media while simple backwashing cleans the bed. No chemical regeneration is required, nothing is imparted into the drinking water and Pyrolox has a high capacity for low contaminant concentrations.

Pyrolox can be used in conjunction with aeration, chlorination, ozone or other pretreatment methods for difficult applications. Chlorine or other oxidants accelerate the catalytic reaction.

**Because of its heavy weight, it is very important that Pyrolox filters are backwashed properly to insure adequate bed expansion and continued service life.**

## ADVANTAGES

- Effective reduction of iron, sulfur and manganese
- Durable material with long service life and low annual attrition of bed
- No chemical regeneration required only periodic backwashing

## PHYSICAL PROPERTIES

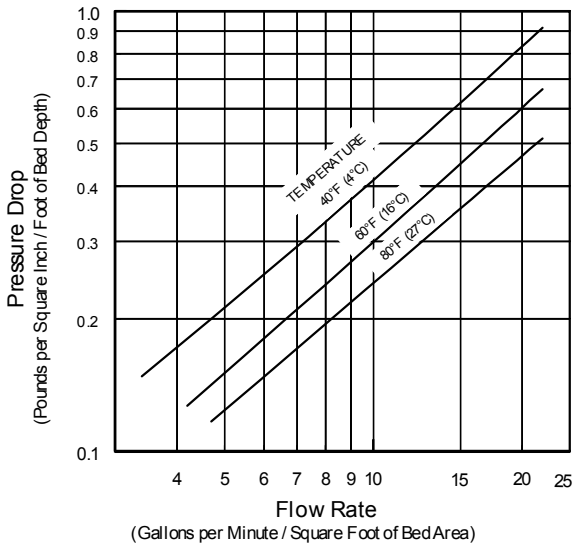
- Color: black
- Bulk Density: 125 lbs./cu. ft.
- Mesh Size: 8 x 20
- Effective Size: 0.51 mm
- Uniform Coefficient: 1.7
- Specific Gravity: 3.8

## CONDITIONS FOR OPERATION

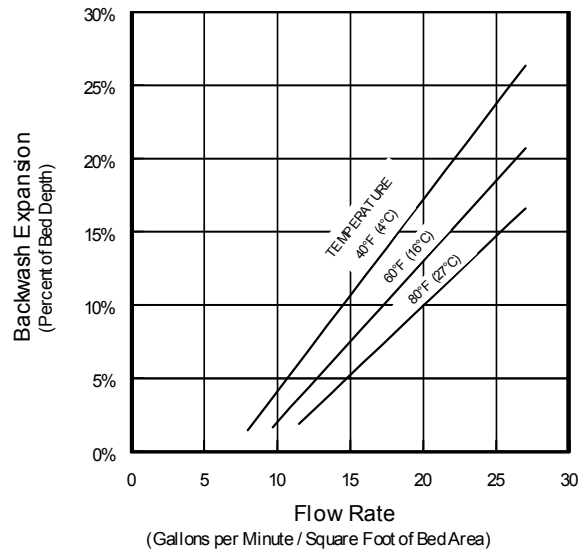
- pH: 6.5-9.0
- Bed depth: application dependent
- Backwash flow rate: 25-30 gpm per sq. ft.
- Backwash expansion: 15-30% of bed depth
- Service flow rate: 5 gpm/ sq. ft.
- Freeboard: 40% of bed depth (min.)



Service Flow Pressure Drop



Backwash Bed Expansion



**ORDER INFORMATION**

Part No.	Description	Cu. Ft./Bag	Wt./Cu. Ft.*	Bags/Pallet	Weight/Pallet	Pallet Dimensions
A8004	Pyrolox®	0.4 (50 lbs.)	125 lbs.	80	4050 lbs.	44" x 44" x 50"

\*Weight per cubic foot is approximate.

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The filter medias listed in this brochure do not remove or kill bacteria. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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