Technical Guide

PYROLOX® is a highly effective media for the removal of iron, manganese and hydrogen sulfide. This robust filter media has proven highly successful in point-of-entry, municipal, residential, and small community systems. Though each treatment application is unique, there are certain general guidelines that need to be followed in order to realize the full benefits of **PYROLOX®**.

Backwashing

As with any media, thorough back-washing is essential for long-term success with **PYROLOX®**. The specific frequency of regular back-washing is dependent on water quality and loading rate.

- Suggested back-wash rate: 18-25 gpm/sq. ft.

Oxidant Feed

To maintain and further augment the long-term performance and removal capacity of the media, an oxidant feed of some type is strongly recommended. This will maintain the media and enhance removal capacity. Chlorine injection (options include chlorine, sodium hypochlorite, or calcium hypochlorite) immediately up stream of the filter feed is a simple way to meet this requirement. Other acceptable oxidants include air injection (oxygen is an oxidant), potassium permanganate, sodium permanganate, etc.

Physical Properties

- Bulk Density: 120 lbs./cubic foot
- Specific Gravity: 3.8
- Mesh Sizes: US 8x20, US 20x40, UK 18/44
- Packaging: 60 lb. bags, 2,000 or 2,205 lb. super sacks, 25 kg bags

Conditions for Operation

- pH: 6.5-9.0
- Bed Depth: Dependent on application and water quality.
- Underbed: Garnet #8, #8-#12. #3 Silica. Other materials are also suitable but must keep media from migrating downward and be heavy enough to remain in place during backwash.
- Freeboard: 40% of bed depth (min.)
- Service flow rate: 6-12 gpm/sq. ft.