



ZAMBER' s Manganese Zeolite is the filter media used for removal soluble iron, manganese and hydrogen sulfide from water supplies to through oxidation and filtration. Soluble iron and manganese are oxidized and precipitated by contact with higher oxides of manganese on the greensand granules. The hydrogen sulfide is reduced by oxidation to an insoluble sulfur precipitate. Precipitates are then filtered and removed by backwashing. It also has the capacity of removing radium and arsenic in water treatment application.

#### ADVANTAGES

- Iron reduction over wide pH range
- Effective reduction of hydrogen sulfide in addition to iron and/or manganese
- No harmful effects from a chlorine feed
- Low attrition for long bed life

#### PHYSICAL PROPERTIES

- Color : Black or Brown
- Density : 80 lbs. /cu. ft.
- Effective size : 0.30 — 0.35 mm (18x60 mesh)

#### CONDITIONS FOR OPERATION

- Water pH range : 6.2 — 8.5
- Bed depth : 30 in.
- Freeboard : 50% of bed depth (min.)
- Regeneration : 1.5-2 of  $\text{KMnO}_4$  by weight per cu. ft.
- Service flow rate : 3-5 gpm/sq. ft.
- Backwash flow rate : 10-12 gpm/sq. ft.
- Backwash bed expansion : 40% of bed depth (min)

#### PACKAGE

- NW. : 25 liter or 30 kg/bag

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