

# AD26 MANGANESE DIOXIDE MEDIA

## For Arsenic, Iron, Manganese, and Sulfide Removal

### MEDIA SPECIFICATIONS

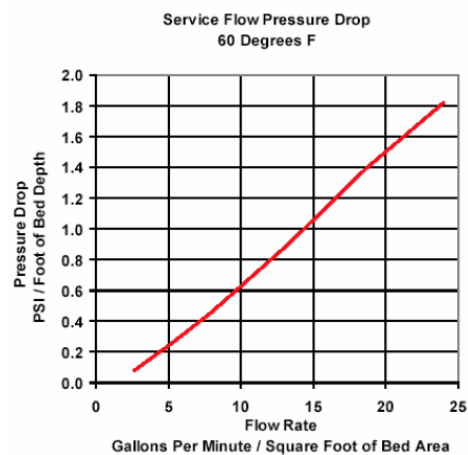
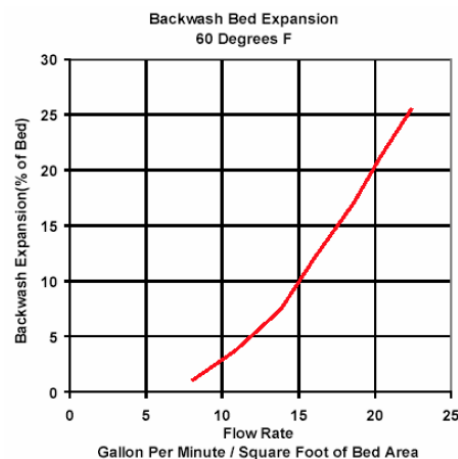
Removal Mechanisms	Rapid Oxidation Adsorption Autocatalytic Adsorption
Removal Efficiency	> 95%
H <sub>2</sub> S Capacity	250 - 300 gr/ft <sup>3</sup>
Size	20 x 40 mesh
Color	Black
Physical Form	Granular Particulate
Moisture Content	< 0.5%
Bulk Density	120 lbs/ft <sup>3</sup>
Uniformity Coefficient	< 1.45
MnO <sub>2</sub> Content	70 - 80%
Certifications	NSF 61*



Example of the AD26 Manganese Dioxide media

### OPERATING CONDITIONS

Treatment Goals	Iron: < 0.3 mg/L Manganese: < 0.05 mg/L Arsenic: < 0.010 mg/L
pH Range	6.5 - 9.0
Temperature	Groundwater ambient (55 - 75 F)
Service Flow Rate	8 - 12 gpm/ft <sup>2</sup>
Contact Time	1.5 - 3 minutes at Fe < 5 mg/L
Bed Depth	30 - 36 inches
Bed Expansion	20 - 30% (on average)
Media Life	> 10 years (on average)
Pre-Oxidant	Hypochlorite Feed (12.5% average)
Oxidant Contact Time	15 - 30 Seconds
Backwash Flow Rate	18 - 20 gpm/ft <sup>2</sup>
Backwash Frequency	1 - 3 times/weekly (site specific)
Pressure Drop	4 psig at 9 gpm/ft <sup>2</sup>



\*AD26 is NSF 61 certified under the trade name Pyrolox Advantage manufactured by Prince Minerals.