

MAG X 120

MANGANESE DIOXIDE FILTER MEDIA

PRODUCT DATA SHEET

Material:	Manganese Dioxide (MnO ₂), screened, washed and dried	
Uses:	Removal of Arsenic, Iron, Manganese, and heavy metals from potable water and water intended for bottling, brewing or soft drink manufacturing.	
Physical Properties:	Specific Gravity 3.5 – 4.0	
	Bulk density (approx.) 125 lb/ft ³ (2000 kg/m ³)	
	Hardness 6 Moh	
Chemical Properties:	A natural Manganese ore specially selected for its capacity for heavy metals removal; free from contamination, and with no additives, is used in the production of MAG X 120 Manganese Dioxide. The Manganese content (as Mn O ₂) varies between 62% and 67%.	
Particle Size:	0.355 – 0.850 mm	Effective Sieve Size: 0.6 mm
Uniformity Coefficient:	1.16 (ratio of % retained / effective size)	
Method of Use:	The Manganese dioxide bed should be backwashed before use to remove fine material. A minimum of five (5) bed volumes of backwash flow are required before putting the filter into service. Additionally, a minimum of one (1) bed volume purge cycle is also required before putting the filter into service .	
Performance:	MAG X 120 Manganese Dioxide does not affect the alkalinity, or the pH, of the filtered water and does not add any extraneous species during treatment; for these reasons it is particularly suited to potable water, as well as bottling, brewing, mineral water or soft drink manufacturing. MAG X 120 can be used in gravity or pressure filters. Typical gravity filter rates are 3 – 4 gpm / ft ² of media. Typical pressure filter loading rates are 5 – 10 gpm / ft ² of media. Pilot testing is recommended to determine pre-treatment requirements, head loss and filter loading rates. Combined backwash and air scour is not recommended and backwash rate should not exceed 20 gpm / ft ² , depending on water temperature. Performance will vary depending on the concentration and nature of the contaminant species being removed. As, Fe, and Mn can be removed to below the MCL specified by the USEPA; currently 10 µg/l, 30 µg/l, and 5.0 µg/l respectively.	
Packaging:	o 55 lb (25 Kg) bags (palletized and shrink-wrapped) o 2200 lb (1,000 kg) super sacks	
Further Information:	Requests for information relating to the application and use of Manganese Filter Media may be directed to the following address:	

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