

MANGANESE GREEN SAND

The Manganese Green Sand has been manufactured from glauconite green sand and it can be used for removal of iron, manganese or its combined together. It can be used in open gravity filtration or closed pressure tank filtration system with or without any chemical added. However, based upon the quality of inlet water oxygen, chlorine and KMnO_4 probably might be injected initially before contact to Manganese Green Sand. Due to its catalyst power of MnO_2 on the Green Sand bead, it could oxidize iron, manganese in soluble form to insoluble (precipitation) form. These insoluble complexes actually retain between the depths of media and could be discarded during backwashing step later. By the way, after oxidation, MnO_2 will be converted to Mn_2O_3 so far. KMnO_4 exactly have been using as regenerant in which it could restore oxidizing power of Manganese Green Sand. So, exhausted Mn_2O_3 will become fresh MnO_2 again.

TECHNICAL DATA

Physical form	granular form
Colour appearance	dark brown
Bulk density	1.26gm/cc
Size	0.8 – 1.5mm
Operating capacity	
Continuous process capacity	3.70 gm. Fe/L (min)
Intermittant process capacity	1.35gm. Fe/L (min)
pH range	7.0 – 8.5
Backwash rate	30 – 40 m/hr
Service Flow Rate	5 – 12m/hr
Minimum Bed Depth	70cm

RECOMMENDED REGENERATING CONDITIONS

Regenerant	KMnO_4
Regenerant concentration	0.2 – 0.5%
Regenerant flow rate	6 – 10m/hr
Minimum contact time	30 minutes

PACKING OF PRODUCT

The Manganese Green Sand is packed in polyethylene bag that can prevent moisture from circumstance. This packing contains exactly 31.5 kgs or 25 litre

Ordering or Information:

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