

MANGANESE GREENSAND

CR and IR

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PRODUCT

Manganese Greensand is a purple-black filter medium processed from glauconite greensand. Manganese Greensand is listed under ANSI/NSF Standard 61 (potable water treated components).

USES AND ADVANTAGES

Manganese Greensand is used for removing soluble iron, manganese and hydrogen sulphide from well water supplies. It also has the capability of removing radium and arsenic from well waters. Systems may be designed using either vertical or horizontal pressure filters, as well as open gravity filters.

The unique chemical and physical properties of Manganese Greensand allow further flexibility of design using two methods of operation: Continuous Regeneration (CR) or Intermittent Regeneration (IR). The CR method is recommended for predominantly iron rich waters and the IR method may be used for groundwater in which manganese predominates. Unlike in-situ treated media, Manganese Greensand does not require extensive preconditioning of filter media or length, startup periods during which the required water quality may not be met.

PHYSICAL CHARACTERISTICS

Physical Form	Black nodular granules, shipped in a dry form
Particle Size	18 x 60 mesh (0.25 to 1.0 mm)
Effective Size	0.30 to 0.35 mm
Uniformity Coefficient	Less than 1.60
pH Range	6.2 to 8.5
Apparent Density	85 lb/ft ³ (1362 kg/m ³)
Shipping Weight, net	87 lb/ft ³ (1394 kg/m ³)
Specific Gravity	Approximately 2.4
Maximum Temperature	Above 80°F (27°C) consult your Manganese Greensand supplier for directions.
Maximum Pressure Drop	8 to 10 psi.
Backwash Rate	Minimum 12 US gpm / sq. ft. at 55°F
Service Flow Rate	2 to 5 US gpm / sq. ft.
Minimum Bed Depth	24 inches (61 cm) or 15 to 18 inches (38 to 46 cm) of each layer for dual media beds.

OPERATING PROCEDURES

Contact your Manganese Greensand supplier for detailed information on operating conditions and procedures.

PACKAGING

Standard packaging is 1 cu. ft. bags on pallets (25 bags per pallet) stretch wrapped to the pallet; or octagon box strapped to pallet (26 cu. ft. bulk material per box); or 1 ton super sacks containing approximately 23 cu. ft. on a pallet. All of these volumes are backwashed, settled and drained volumes.

Product performance is affected by many factors, including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Target's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Target's SOLE LIABILITY is to replace product proved defective. In no event shall Target be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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