

Greensand

Advanced Water Filtration Media ^{KT}

Greensand KT is effective at higher operating temperatures and higher differential pressures than ordinary manganese greensand. Greensand KT is a black filter media used for removing soluble iron, manganese, hydrogen sulfide, arsenic, and radium from water supplies. The manganese dioxide coated surface of Greensand KT acts as a catalyst in the oxidation reduction reaction of iron and manganese.

Systems may be designed using either vertical or horizontal pressure filters, as well as open gravity filters.



Greensand KT is a proven technology for iron, manganese, arsenic, radium, and hydrogen sulfide removal. Unlike in-situ treated media, there is no need for extensive preconditioning of filter media or lengthy startup periods, during which required water quality may not be met.

FEATURES:

- Removal of iron, manganese, and hydrogen sulfide.
- Effective over wide PH range.
- High tolerance of oxidizers such as chlorine.
- Low attrition for long bed life.

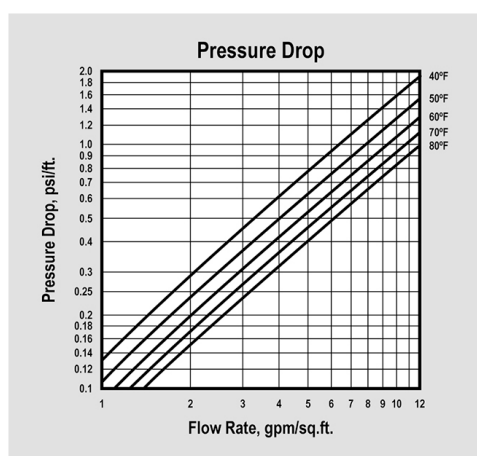
PHYSICAL PROPERTIES:

○ Physical Form	Black Granules
○ Apparent Density	77 lb/cu.ft.
○ Specific Gravity	2.4 approx.
○ Porosity	0.45 approx.
○ Screen Grading (Dry)	20 x 60 mesh
○ Effective Size	0.30 to 0.35 mm
○ Uniformity Coefficient	< 1.60
○ pH Range	6.2 to 8.5
○ Backwash Rate	12 gpm/sq.ft. @ 55°F
○ Service Flow Rate	2-12gpm/sq.ft.
○ Minimum Bed Depth	15 inches

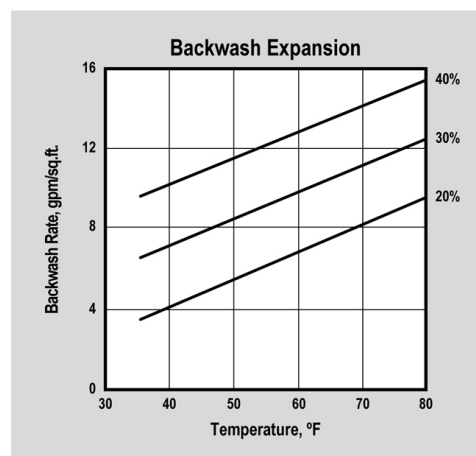
CONDITIONS FOR OPERATION:

▶ Bed Type	Greensand KT 15 inches
▶ Backwash	Sufficient rate using treated water to produce 45% bed expansion
▶ Air/Water Scour	Optional using 0.7 to 2.5 cfm/sq.ft. with a simultaneous treated water backwash at 5.0 to 5.5 gpm/sq.ft.
▶ Raw Water Rinse	At normal service flow rate for 5 to 10 minutes or until effluent is acceptable

GreensandPlus Pressure Drop Graph



GreensandPlus Backwash Expansion Graph



ADVANTAGES

- △ The shape of particles allows suspended particles to be retained over the depth of the filter bed
- △ It complements mixed filters very well, particularly Green and Manganese Sand filter media
- △ Allows for higher flow rate compared to sand
- △ Smaller pressure drop compared to sand
- △ Faster backwash rate compared to sand
- △ High resistance to a variety of chemicals
- △ Greater physical strength for use in industrial water purification.
- △ Prevents filtration blockage and more.
- △ Prevention of mad ball forming at the surface of the sand layer.
- △ Can easily transform from Single Media Filtration to Dual Media Filtration (sand)

WARNING :

For safety and handling purposes, we recommend appropriate protective measures when entering a wet vessel containing granular anthracite, because wet anthracite depletes oxygen from air and therefore, dangerously low levels of oxygen may be encountered. In such a case, the oxygen level inside the vessel shall be determined before entering and appropriate protective equipment should be worn when entering, or leave the vessel open until the oxygen level in the vessel is normal.

This information has been gathered from standard materials and or test data that is believed to be accurate and reliable. Nothing herein shall be determined to be a warranty or representation expressed or implied with respect to the use of such information or the use of the goods described for any particular purpose alone or in combination with other goods or processes, or that their use does not conflict with existing patent rights. No license is granted to practice any patented invention. It is solely for your consideration, investigation and verification.



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