

# GREENSAND PLUS

- REF. RA074;
- filter media used for removing soluble iron, manganese, hydrogen sulphide, arsenic and radium from well water supplies;
- like the sister product Manganese Greensand, the substrate media has a manganese dioxide coated surface that acts as a catalyst in the oxidation-reduction of iron and manganese. The difference between GREENSAND PLUS and Manganese Greensand is the substrate that forms the core of the media and the method by which the manganese dioxide coating is attached to that substrate. GREENSAND PLUS has a silica sand core and coating is fused to it, while manganese greensand has a glauconite core and the coating is ionically bound to it;
- the silica sand core allows to better withstand operating conditions in waters that are low in silica, TDS and hardness. Also can withstand higher operating temperatures and higher differential pressure that can Manganese Greensand;
- exact replacement for manganese greensand. It can be used in CR (continuous regeneration) or IR (intermittent regeneration) and requires no changes in backwash rate or times or chemical feeds;
- not shipped in regenerated form; prior to use it is necessary to regenerate with a solution of potassium permanganate contacting the bed for a minimum of 4 hours. A regeneration level of 4 g of potassium permanganate per liter is recommended. Before placing in service the filter must be rinsed of all remaining traces of potassium permanganate;
- available in 14,2 liters bags.



## PHYSICAL PROPERTIES:

Colour	black
Specific gravity (g/l)	2400
Bulk density (g/l)	1375
Effective size (mm)	0,30 ÷ 0,35
Uniform coefficient	1,6

## OPERATING CONDITIONS:

Minimum bed depth (mm)	750
Service flow rate continuous (m <sup>3</sup> /h m <sup>2</sup> )	7 ÷ 15
Service flow rate intermittent (m <sup>3</sup> /h m <sup>2</sup> )	15 ÷ 30
Backwash flow rate (m <sup>3</sup> /h m <sup>2</sup> )	30 ÷ 35
Backwash bed expansion (%)	35 ÷ 40
pH range	6,2 ÷ 8,5