

AQUASOL

Water Treatment Solutions

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SPECIFICATION OF AQUASOL AQ 6500 FILTRATION MEDIA

AQ 6500 is a revolutionary Iron, Manganese, and Arsenic Filtration Media that has been extensively used in a wide variety of applications for over 15 years. Aquasol distributes this technology product with associated equipment.

The unique micro porous structure of AQ6500 makes it efficient in the removal of Iron, Manganese, and Arsenic compounds from raw water.



20' Sea Container Fitted with 50m³/hr Arsenic removal filtration system



Touch Screen PLC Control system for Arsenic / Iron removal system

Advantages of AQ 6500 include:

- Filtration speed at up to twice the amount of ordinary filtration. L.V. 10-30 m³/hr (effective at high filtration rates)
- No chemical regeneration is required. Only periodic backwashing required.
- Easy and fast installation and decreased washing time at trial operation.
- Superior reduction capabilities of Iron and Manganese concentrations, with results of 0.005 ppm and less than 0.001 ppm respectively having been achieved.
- Requires only a continuous 0.1 to 0.3 ppm injection of Sodium Hypochlorite to remain activated during operation and backwash. No other chemicals required.
- Coagulants not necessary other than for special applications
- Long life material. Stable performance in a wide range of temperature and pH applications
- Extremely competitive pricing makes AQ 6500 suitable for a much wider variety of applications than competitive media.

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AQ 6500 acts as an oxidization catalyst allowing immediate oxidization and removal of the insoluble precipitate. Arsenic when bound as ferroarsenate also be removed down to <1ppb.

AQ 6500 is not consumed in the process providing enormous advantages over other removal processes.

AQ 6500 is manufactured and supplied in 20 kg plastic lined bags or 1 tonne bulk bags. Both are packed on export grade pallets and plastic wrapped for secure transport.

PHYSICAL PROPERTIES & CONDITIONS FOR OPERATION

| PHYSICAL PROPERTIES (Filter Media) | AQ 6500 (Iron Manganese Filter) |
|------------------------------------|--|
| COLOUR | Brown to Black |
| BULK DENSITY | 20 kg / 0.0135 m ³ |
| SPECIFIC GRAVITY | 2.65 |
| EFFECTIVE SIZE | 0.60 - 0.65mm |
| UNIFORM COEFFICIENT | 1.4 to 1.7 |
| MESH SIZE | 20 – 42 |
| ATTRITION LOSS PER ANNUM | 1 – 5% (dependant on water conditions) |

| CONDITIONS FOR OPERATION (Filter Media) | AQ 6500 (Iron Manganese Filter) |
|---|--|
| WATER pH RANGE | 5.8 – 8.6 |
| MAXIMUM WATER TEMPERATURE | 45 degrees C |
| BED DEPTH | 600 mm (minimum) |
| FREEBOARD | 40% of bed depth (minimum) |
| REGENERATION | No regeneration required |
| SERVICE FLOW RATE treatment | 1 – 30 m ³ /m ² per hour (dependant on water quality and conditions) |
| BACKWASH FLOW RATE | Between 25 – 80 m ³ /m ² hr |
| BACKWASH BED EXPANSION | Between 15 – 50% |