

Aldex OSM (One Step Media)

Hardness, Tannins, Fe, Mn, H₂S Removal

Aldex OSM filtration media was **specially designed as a universal media for removal of the most common contaminants found in potable water**. There are many treatment options on the market but none has the unique ability to offer the high capacity and long life of Aldex OSM multi-component water treatment media.

Benefits of Aldex OSM

Blended for the North American Market

Aldex OSM is a blended product tailored to the North American market where the vast majority of installed systems are operated using a co-current design. Aldex OSM contains many products but there is no need to include under-bedding media. Coarse sand or gravel are common and the experienced OEM's with whom we deal carry those products plus know which are the best for bed support and distribution.



Similarly, there are virtually no packed bed residential systems and very few commercial packed bed systems operating in North America. For that reason Aldex OSM contains no floating resin. Aldex OSM uses the volume an inert plastic bead would occupy and replaces that unproductive volume with ion exchange resins able to remove hardness, tannins, iron, manganese and hydrogen sulfide.



Aldex OSM beads

Aldex OSM Features

Hardness

Aldex OSM contains a significant percentage of a high capacity, uniform particle size strong acid cation softening resin.

Metals

Aldex OSM contains a chelation media able to oxidize metals in solution. Metal ions are oxidized as they pass the chelation media. The resulting metal-oxide nano-particles are then trapped in the resin bed. The metal-oxide nano-particles are removed with each regeneration while the chemical locked inside the ion exchange is re-charged for the next service cycle.

Hydrogen sulfide

The same chelation media that oxidizes metals in solution will also oxidize hydrogen sulfide, enabling it to be removed with this one-step media.

Organics, tannins and lignins

Multiple media are included in Aldex OSM in order to address the wide range of organics found in North American waters. Organics, tannins and lignins are difficult to remove species and a combination of resins is employed to accomplish this task.

Regeneration

All resins are regenerated with a standard 10% brine solution.

Working media

All components have measurable ion exchange capacity making every component a "working media".

