

# FiltaMedia™

## Organic Filtration Media

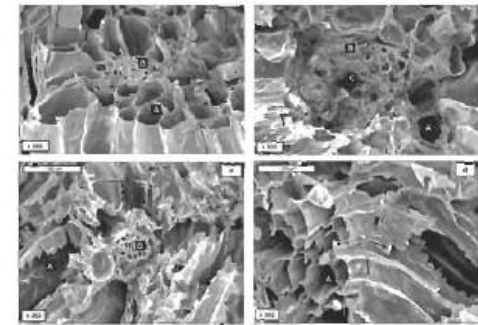


Traditional organic media such as bark, wood chips and green waste are problematic when used as a biofiltration media. Rapid, irregular decomposition and mechanical degradation results in compaction, which reduces flow and increases back pressure or develops preferential pathways and venting. High maintenance and replenishment costs limit their commercial viability regardless of their base costs.

Bioaction FiltaMedia™ is a significant advancement in organic filtration media:

- Robust - resists biological and mechanical degradation
- Even diffusion – consistent structure with high “air-filled porosity”
- High water holding capacity – large surface area (6000 m2/ltr) & excellent capillary action
- Free draining – open and porous structure
- Biological host – surface area, moisture retention and thermal buffering optimises microorganism population
- Resists compaction – increases bed depth and reduces footprint

Bioaction FiltaMedia™ can be used for a range of filtration applications such as biofiltration of odorous air, and wastewater filtration.



FiltaMedia™ is convenient to use and are available in bulk or 25kg bales which are an efficient way to manage installation and maintenance. The bales are compacted 2:1 to improve freight and handling logistics and each bale yields 200ltrs.

FiltaMedia™ is effective in a range of environmental filtration applications as it treats a range of organic and inorganic contaminants such as hydrocarbons, heavy metals, nutrients, acid sulphate leachate, suspended solids and silt.

Wastewater Filtration - FiltaMedia™ can be effectively used in a range of wastewater filtration applications such as:

- **Filter Trench** - FiltaMedia™ is laid into trenches to provide a lateral filtration format. Wastewater is directed into the trench where contaminants and nutrients are entrapped. The moisture holding capacity and air filled porosity promotes biological oxidation of contaminants.
- **Filter Gabions** - FiltaMedia™ is housed in a formed structure in a storm water drain. The media is held within a geo-basket that resists blinding and allows for easy replenishment and maintenance.
- **Filter Trap** - FiltaMedia™ is used in a concrete structure that allows “bottom up” filtration. It can provide post “Gross Pollutant Trap” treatment of polluting contaminants.
- **On-site Portable Filtration** - FiltaMedia™ is used in the patented FiltaBin™ which provides on-site filtration of contaminated wastewater. The mobile units can be set up in series to increase capacity or in parallel to increase flow rate.

Biofiltration - FiltaMedia™ is a highly effective biofiltration media providing the optimum conditions for odour entrapment and biological degradation.

FiltaMedia™ is made from Coir Husk which is a natural organic material derived from coconut production. It is the ultimate renewable resource as it grows without the need for irrigation, fertilisers or pesticides. The fruit is harvested without destroying the tree which continues to yield fruit for many years. Coir demonstrates polymer-like characteristics, and is very robust. It maintains its integrity in acid and alkaline state while resisting mechanical degradation in waste water filtration. The high lignin content of Coir resists biological degradation. Its open capillary structure, and surface area provides a free-draining media with moisture retention capacity up to 70%.

