

# ***Lightweight Sand Filter Media***

## ***(Part No. JF1)***

Backflush channeling is a common problem with sand filters in reuse aquaculture. This occurs when the heavy sand media doesn't fluff up (bed expansion) as it should because the organics and bacteria make it stick together.

Our lightweight media minimizes the problem because it expands 30–50% with only 8–10 gpm per square foot backflush (if the flowrate is in excess of 10 gpm per square foot of area, a restricting valve on the backflush drain may be needed to prevent the loss of media).

Weighs only 25 lbs/ft<sup>3</sup> (sand is about 100 lbs per cubic foot). The irregular shape of the lightweight media provides more void space, resulting in less pressure loss. Its irregular surface provides particulate removal down to the 20–40 micron range.

A good idea to minimize the loss of filter media is to install a short piece (6") of clear PVC pipe in the drain side of the filter to gauge the correct flow of water needed to backwash without flushing out the media.



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