

# Biofil



With a surface area of 41 ft<sup>2</sup> / ft<sup>3</sup> Biofil has a spherical design, suitable for applications where larger or greater voidage is required.

With purpose-designed features Biofil, in the Warden Biomedica filter range, are an excellent alternative to traditional mineral-based media and are ideal for improved performance in new wastewater treatment plants. Biological filter media of the relevant dimensions can replace all or part of the mineral-based media to improve system efficiency where it has become impaired by overloading. The surface textures of Warden Biomedica enable biomass or bacteria to adhere more effectively to reduce loss of media due to installation procedures.

Modern plastic filter media eliminate problems relating to clogging and puddling associated with gravel, slag and clinker filter beds. Traditional biofilters using stones, slag or coke can easily be clogged after some time of operation. Modern technical solutions allow very high reduction of biogenic compounds. Reactivation and modernization of old type biofilter treatment plants is much cheaper than reconstruction of the treatment plants.

## Technical Information

Material	Polypropylene*
Specific Gravity	0.97
Dimensions	3.72 x 2.72 inches
Surface Area	41 ft <sup>2</sup> / ft <sup>3</sup>
Voidage	95%
Weight (dry)	2.81 lbs/ft <sup>3</sup>
Weight (operational)	up to 28 lbs/ft <sup>3</sup>
Consolidation	5 - 10%
Flow Direction	Non specific

\*Recycled polypropylene

## Features

Warden's biological filter media are feasible for both industrial and municipal wastewater and are used for organic removal, nitrification and denitrification.

- Low weight
- Large active surface area
- Compact
- Easy upgrade of existing plants
- Durable, long-life
- Minimal clogging
- Random filter media
- High BOD5 reduction (up to 90%) and nitrification
- Low capital, low installation, operating and maintenance costs
- Corrosion resistant components

## Suitable Applications

Biofil is ideal for trickling filter beds in large scale industrial and municipal wastewater treatment plants, and is suitable for the

- Printing industry
- Dairy product producers

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- Large SAF units
- Municipal wastewater treatment plants
- Industrial wastewater treatment plants

## References

### Warden Biomedica Chosen for New Severn Trent Wastewater Plant



Severn Trent Water Limited (STWL) is a regulated business with responsibilities for the provision of water and sewage services to over 8 million people in an area stretching from the Severn Estuary to the mouth of the Humber.

For random biological filter media - from the largest municipal sewage treatment plant down to a garden fishpond - Warden Biomedica has you covered, with the experience and knowledge to assist you in selecting of the right filter media for your application. Contact us today to see how we can work for you.



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