

Biomarble



With a spherical design and surface area of $310\text{m}^2/\text{m}^3$, Biomarble has the highest surface area of the three spherical designs in the Biomedica filter range.

With purpose-designed features Biomarble, in the Warden Biomedica filter range, is an excellent alternative to traditional mineral-based media and is 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 texture of Warden Biomedica enables biomass or bacteria to adhere more effectively to reduce the 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. Former 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	46 x 36 mm
Surface Area	$310\text{ m}^2 / \text{m}^3$
Voidage	90%
Weight (dry)	$76\text{ kg} / \text{m}^3$
Weight (operational)	up to $583\text{ kg} / \text{m}^3$
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

Biomarble caters for a wide range of biological wastewater treatment plants of different sizes serving

- New housing developments
- Commercial premises

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- Single dwellings
- Small or large SAF units
- Municipal wastewater treatment plant
- Industrial wastewater treatment plant

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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