

MBBR MEDIA 16X22 MM

Multigrade Sand Filtration & Moving Bed Biofilm Carrier

WATER TREATMENT

Spectacular Water Treatment Performance: Utilise this top-rated Multigrade Sand Filter & MBBR Media to achieve outstanding wastewater treatment performance across sewage and industrial applications. Crafted from premium Virgin Polypropylene (PP) and combined with high-grade sand and gravel, this system offers enviable reliability, high void ratio, and superior organic load removal.



Technical Specifications

Parameter	Specification
Dimensions	16 × 22 mm Carrier Size
Material Composition	Virgin Polypropylene (PP)
Specific Surface Area	350 – 800 m ² /m ³
Recommended Fill Ratio	30% – 70% Tank Volume
Void Ratio	> 85% High Porosity
Removal Efficiency	> 75% BOD & COD Removal
Installation Type	Inline / In-Tank Biofilters
Expected Service Life	5 – 10 Years Service Life

Versatile Usage & Advanced Filtration Features

Multi-Process Adaptability

Ideal for sewage plants, industrial effluent treatment, and aquaculture filtration. Features an internal fin structure for high microbial growth and excellent pH tolerance across aerobic and anaerobic processes.

Anti-Clogging Design

The high void ratio and specialized channel geometry eliminate clogging risks, ensuring low operational head loss, uniform flow distribution, and consistent biological filtration performance.

Premium Markets, Certifications & Dispatch

Global Market Reach & Packaging Operations

Certifications & Manufacturing: Manufactured in India under strict ISO and industry quality certifications, ensuring high structural integrity and chemical stability.

Export Destination Markets: Widely exported across Southeast Asia, Africa, and the Middle East for urban water utilities and industrial zones.

Dispatch & Supply: Tailored protective packaging safeguards media shape during bulk transit. Markdown offers and bulk volume supply options are readily available on request.

Frequently Asked Questions (FAQs)

Q: How is the Multigrade Sand Filter Sand Filtration MBBR Media installed?

A: The media is typically installed in-tank or as part of inline biofilter systems. Simply follow the manufacturer's recommended filling ratio (30%-70%) to maximize surface area and efficiency.

Q: What is the main benefit of using this MBBR media in water treatment plants?

A: This MBBR media offers high removal efficiency (>75%) for BOD and COD, making it ideal for achieving stringent water purification standards and boosting overall treatment plant performance.

Q: Where can this product be utilised effectively?

A: It is ideally suited for sewage treatment plants, industrial effluent treatment, wastewater recycling systems, and aquaculture environments requiring reliable filtration.

Q: What is the recommended maintenance process for optimum lifespan?

A: For best results, periodically backwash the sand filter and monitor for potential clogging. With proper maintenance, the media can last between 5 to 10 years.

Q: How does the surface area of this media enhance filtration?

A: The large specific surface area (350-800 m²/m³) and high void ratio allow for dense microbial growth and efficient organic load removal, thus improving overall biological filtration.

