

MBBR MEDIA 4X25 MM

Moving Bed Biofilm Reactor High-Surface Media

BIOLOGICAL TREATMENT

Advanced Wastewater Treatment Advancement: Experience a remarkable breakthrough with our MBBR media, featuring a high surface area exceeding 500 m²/m³ and a porous structure (60–70%). Engineered from High-Density Polyethylene (HDPE), this biofilter medium demonstrates negligible moisture absorption, temperature resistance up to 80°C, and a service life exceeding a decade. Each buoyant piece optimizes fluid dynamics for consistent, minimal-maintenance microbial growth.



Technical Specifications

Parameter	Specification
Carrier Dimensions	4 × 25 mm Profile
Material Construction	High-Density Polyethylene (HDPE)
Specific Surface Area	> 500 m ² /m ³
Porosity / Void Rate	60% – 70% Porous Structure
Max Operating Temp	Up to 80°C
Moisture Absorption	Negligible
Operation Mode	Floating / Submerged / Fluidized
Expected Service Life	> 10 Years Service Life

Versatile Application Across Sectors

Multi-Sector Deployment

Excels in biological treatment across municipal sewage treatment plants, industrial effluent facilities, and aquaculture biofiltration systems demanding long-term operational stability.

Flexible Hydraulic Operations

Adaptable for submerged or fluidized tank configurations. Floating dynamics ensure uniform contact and accelerated organic load degradation across variable flow conditions.

Payments, Delivery & Sample Policies

Commercial Terms & Expedited Fulfillment

Payment Terms: Secure, flexible payment structures supporting various commercial methods tailored to your organization.

Swift Delivery & Dispatch: Orders are dispatched rapidly with express shipping options available for minimal lead times.

Sample Availability: Flexible sample policy provided upon request to validate performance metrics prior to large-scale procurement.

Frequently Asked Questions (FAQs)

Q: How does the Moving Bed Biofilm Reactor enhance biological wastewater treatment?

A: By offering a high surface area and porous structure, the MBBR facilitates efficient biofilm formation, accelerating the biological degradation of contaminants and improving purification rates in various water treatment applications.

Q: What are the key benefits of using this MBBR media compared to traditional solutions?

A: The MBBR media's remarkable durability, corrosion resistance, and negligible maintenance needs ensure a long service life, while its floating design and customized sizing maximize value and treatment efficiency.

Q: Where can the MBBR be effectively used?

A: This reactor media is suitable for municipal sewage treatment, industrial effluent plants, and aquaculture biofiltration systems—any application requiring biological wastewater purification.

Q: What is the typical process for installing the MBBR media?

A: The biofilter media can be submerged or fluidized in biological tanks. Installation is straightforward—simply add the required quantity based on tank size and load, and commence biological treatment.

Q: When can I expect my order to arrive after dispatch?

A: Orders are dispatched quickly, and with express shipping, arrival times are minimized, typically within a few days post-dispatch, depending on your location and customized order size.

