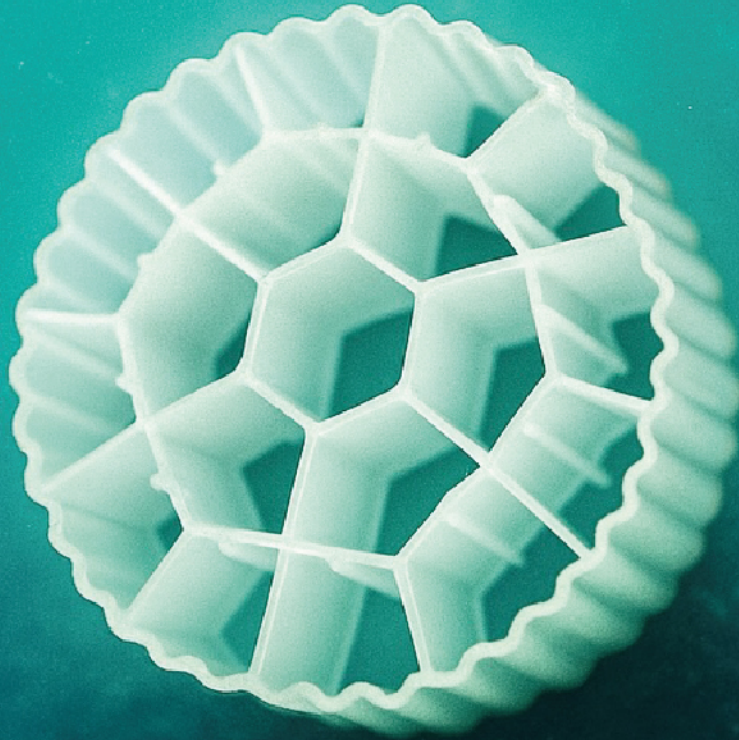




# OXY-TECH

**Your Reliable MBBR Solution Partner**



***More surface area, stronger biofilm, minimum energy consumption***

**[www.oxy-tech.com.tr](http://www.oxy-tech.com.tr)**

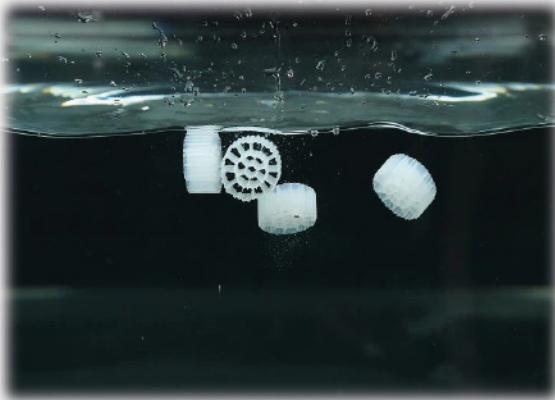
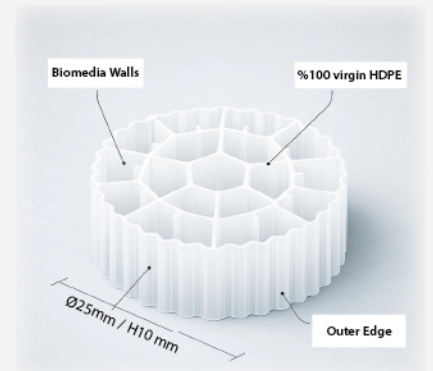


## Oxy-Tech

The Oxy-Film MBBR biocarrier produced by Oxy-Tech is engineered to maximize biological efficiency in modern treatment facilities. With extensive engineering expertise and an export network spanning over 20 countries, Oxy-Tech provides strong solution partnership in MBBR technology, offering rapid delivery and competitive advantages through local manufacturing strength.

## Oxy-Film

Oxy-Film MBBR provides an ideal environment for maximum biofilm growth with its optimized flow dynamics and large specific surface area. Its high surface area enables superior bacterial attachment capacity, enhancing treatment efficiency. Manufactured from 100% virgin HDPE, Oxy-Film MBBR offers long service life and high treatment performance with low energy consumption thanks to its durable structure.



## How Oxy-Film Works

Within the reactor, Oxy-Film biocarriers remain in continuous motion, providing an ideal surface for microorganisms to attach and grow. This results in:

- Accelerated BOD and COD removal
- More efficient nitrification and denitrification processes
- Reduced sludge bulking
- A system that is resilient and adaptable to varying operating conditions

## Technical Specifications:

Description	Details
Diameter	25 mm
Height	10mm
Room Quantity	19
Material	100% Virgin HDPE
Surface Area	650 m <sup>2</sup> /m <sup>3</sup>
Biofilm Maturation Period	15-25 days
Color	Natural
Service Life	15 years



## Solutions & Application Areas

Oxy-Film MBBR is more than just a biocarrier; it is a solution partner enabling treatment plants to achieve capacity increases, energy savings, and environmental sustainability goals.



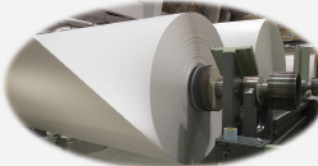
### Municipal Wastewater Treatment Plants

Oxy-Film MBBR delivers superior performance in removing organic pollution (BOD, COD), nitrogen, and ammonia in municipal facilities. It addresses increasing treatment demands due to population growth without requiring additional infrastructure investments. It also reduces sludge volume, lowering operational costs and minimizing environmental impact.



### Industrial Wastewater Treatment

**Food & Beverage:** Ensures rapid removal of high organic loads; minimizes odor, hygiene risks, and environmental issues.



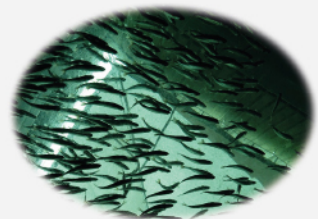
**Pulp & Paper Industry:** Supports stable treatment of fiber- and cellulose-based waste; provides process reliability during continuous production.



**Chemical Industry:** Offers an effective solution for the biodegradation of hard-to-break organic compounds and reduces toxicity.



**Textile Industry:** Maintains stable performance in wastewater with high dye and chemical loads, ensuring compliance with discharge standards.



### Fish Farms & Aquaculture

Oxy-Film enhances fish health and production capacity by ensuring effective ammonia and nitrite control. Stable water quality improves environmental protection and economic efficiency.



### Capacity Increase / Rehabilitation

Existing treatment plants can increase capacity simply by adding Oxy-Film MBBR without new construction. This provides higher treatment performance with low investment cost — an economical solution for facilities facing increasing loads.



### MBBR Package Treatment Systems

Compact, modular, and portable systems ideal for small municipalities and organized industrial zones.



# OXY-TECH



*Oxy-Tech supports its partners throughout every stage of the project with fast response and technical assistance.*



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