

BioChip25™ MBBR

The Ultimate Biological Treatment System



48,000 m³/d BioChip™ MBBR Plant in Switzerland

Process Technology

BioChip^{MT} MBBR is a trendsetting technology for municipal and industrial biological wastewater application. It is the most advanced solution for COD/BOD degradation, nitrification, denitrification and detoxification.

Advantages

Proven German Technology
Active Area = 4850m²/m³
Simple operation
Resist to shock loading

Economic solution
Easy for retrofit/upgrading
No clogging on Bio-carriers
Small foot print

Patented BioChip Carrier

Brand Name: Mutag Biochip™
Material: PE Virgin
Diameter: approx. 25 mm
Colour: White
Thickness: 1.1 mm
Density: 0.95-0.98kg/l



Physical Outlook – Biochip



Biofilm Surface

Ultimate Performance

BioChip™ MBBR Technology requires only 10-20% filling bio-carriers for most of applications due to large active surface area. This gives Biochip™ technology more space for future upgrading without the needs of constructing new reactors. Biochip™ MBBR has significant advantages over other biofilm technologies, due to its ingenious design: it just never clogs, and maintains consistent outstanding performance in many applications, even after many years of operation!



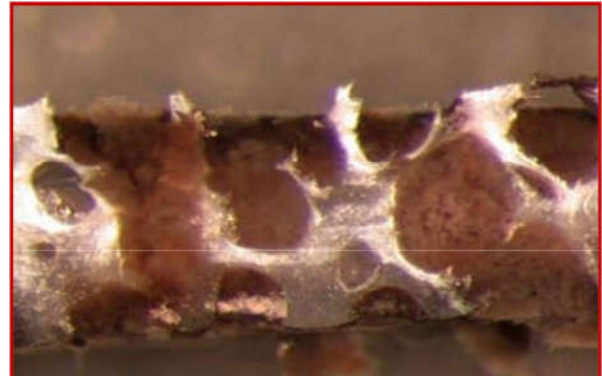
Biochip after 4 weeks of operations



Biofilm Surface



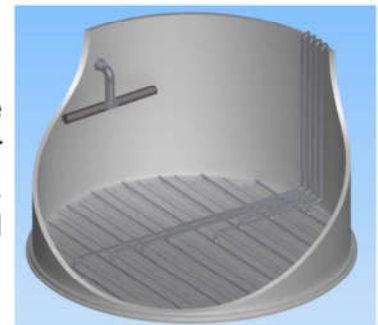
Biochip after 16 weeks of operations



BioChip Cross Section

Physical Design

The superiority of Biochip™ MBBR technology comes with the simplest physical design for both operation and maintenance: air pipe and screen. It does not have bio-fouling in its aeration system. The operation is virtually much more easier than conventional biological system, with more profound compliance results.



Typical Organic and Nutrient Removal Process

