



# MUTAG BIOCHIP™

- FOR EFFECTIVE NITRIFICATION AND DENITRIFICATION IN RAS SYSTEMS

HATCHERY, SMOLT AND GROWOUT FACILITIES

With more than 20 years experience in biofiltration including developing and manufacturing of bio media for MBBR and IFAS processes, the Mutag BioChip™ was developed by MUTAG in 2008. Today it is distributed worldwide for applications within Aquaculture, Municipal wastewater and all sorts of industries where clean water is needed. Below we have gathered 6 things you should know about this unique biofilm carrier:

1

## Mutag BioChip™

The Mutag BioChip™ is a high-performance biofilm carrier media for many purposes. With its special design with a large active surface area (up to 5500 M<sup>2</sup>/M<sup>3</sup>), and the thickness of only 1,1 mm ensuring all biofilm to have sufficient oxygen, it provides very high removal rates and process stability, especially in nitrification, COD removal and denitrification.

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## Lifetime

Our longest application has now been running for 12 years without the BioChips being out of the water or externally cleaned in any way. There are no signs of wear and tear and we can grant a warranty of more than 10 years.

2

## Self-cleaning

The Mutag BioChip™ is self-cleaning, when moving around in the biofilter. This ensures a thin and always active biomass and a low sludge production. Light weight and low kinetic energy ensures no abrasion of a single carrier element.

5

## Easy retro-fit

Retro-fitting of existing biofilters is easy, either by adding Mutag BioChip™ or by replacing conventional carriers with Mutag BioChip™, respectively. In this way, an upgrade can be achieved without further investments in new tanks.

3

## Energy consumption

The energy consumption for aeration and mixing is low compared to traditional bio media, and this is something our experienced specialist team is focusing on, when assisting in dimensioning of the biofilter, according to special needs in each application.

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## Sustainability

The unique design, the long lifetime and the high efficiency make the Mutag BioChip™ a sustainable carrier medium. Furthermore, a new product with the same abilities was launched in 2022, however it is produced from recycled PE, post industrial material from our production such as surplus/cuts, which is being re-granulated at our own production facilities. Both types are free of phthalates and other plasticizers, and do not emit microplastics, which might be harmful to fish and other marine creatures.



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