

# RK BioElements

- for a cleaner world

## Effective biological treatment for aquaculture

The injection moulded biofilter media, RK BioElements, from Dania Plast is a unique designed biomedica which can be used for both nitrification and denitrification in fixed-bed filters and moving-bed filters.

As RK BioElements combine a good flow with a large surface area of  $750 \text{ m}^2/\text{m}^3$ , the filters work with very high turnover rates, thus reducing the biological footprint. The unique design also means that RK BioElements cannot "wedge" together, which ensures an easy and simple cleaning of the filters

Since 2009 RK BioElements have successfully been used in biofilters around the world.

## Characteristics

### FORM STABLE

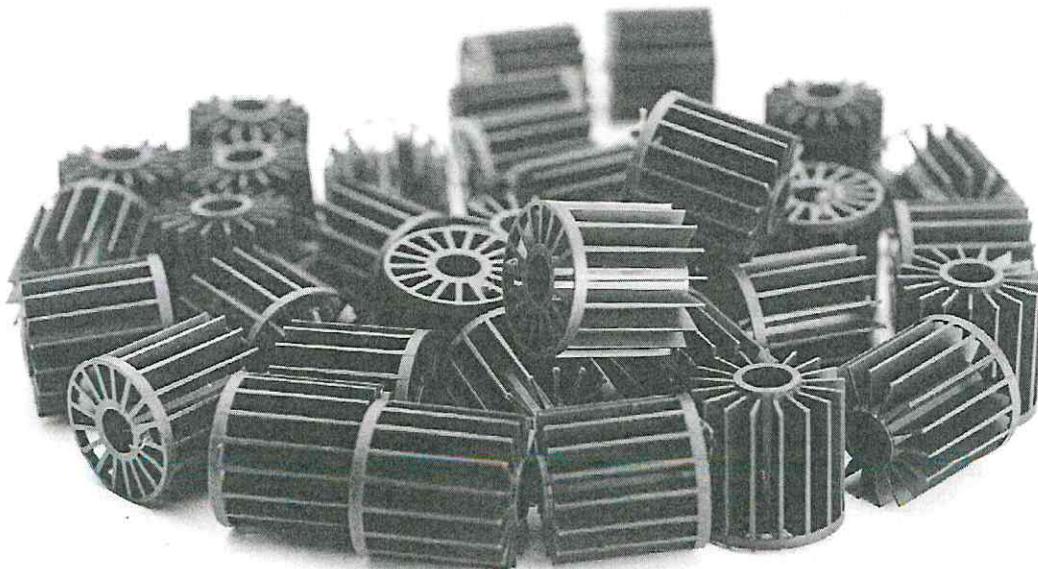
- Injection moulded – PP/PE material
- High breaking strength
- No compression/deformation

### OPEN STRUCTURE

- Low hydraulic loss
- High water flow through the elements
- Easy to clean

### DIFFERENT DENSITIES

- Light – density  $0.93 \text{ g/m}^3$
- Medium – density  $1.00 \text{ g/m}^3$
- Heavy – density  $1.20 \text{ g/m}^3$



THE OBVIOUS CHOICE WHEN IT COMES TO BIOFILTER MEDIA

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## Specifications

	RK BioElements Light Density 0.93 g/cm <sup>3</sup>	RK BioElements Medium Density 1.00 g/cm <sup>3</sup>	RK BioElements Heavy Density 1.20 g/cm <sup>3</sup>
Applications	Primarily used for up-flow fixed-bed filters	Primarily used for moving-bed filter	Primarily used for down-flow fixed-bed filters
Surface area (m <sup>2</sup> /m <sup>3</sup> )	750	750	750
Number (pcs/m <sup>3</sup> )	255,000	255,000	255,000
Volume weight (kg/m <sup>3</sup> )	158	172	210
Bag size (m <sup>3</sup> )	2.0 m <sup>3</sup> , 2.5 m <sup>3</sup> & 3.0 m <sup>3</sup>	2.0 m <sup>3</sup> , 2.5 m <sup>3</sup> & 3.0 m <sup>3</sup>	2.0 m <sup>3</sup> , 2.5 m <sup>3</sup> & 3.0 m <sup>3</sup>

RK BioElements are produced in Polypropylene (PP/PE), which contains no halogens and can be recycled or disposed of by incineration, where the end product is only water and carbon dioxide.

The filler used in RK BioElements Heavy and Medium is Barium Sulphate (BaSO<sub>4</sub>). Barium Sulphate is environmentally neutral, ref. safety data sheet: "No danger of toxicity" the material is biological inactive.

