

BIOCONS

LEVAPOR

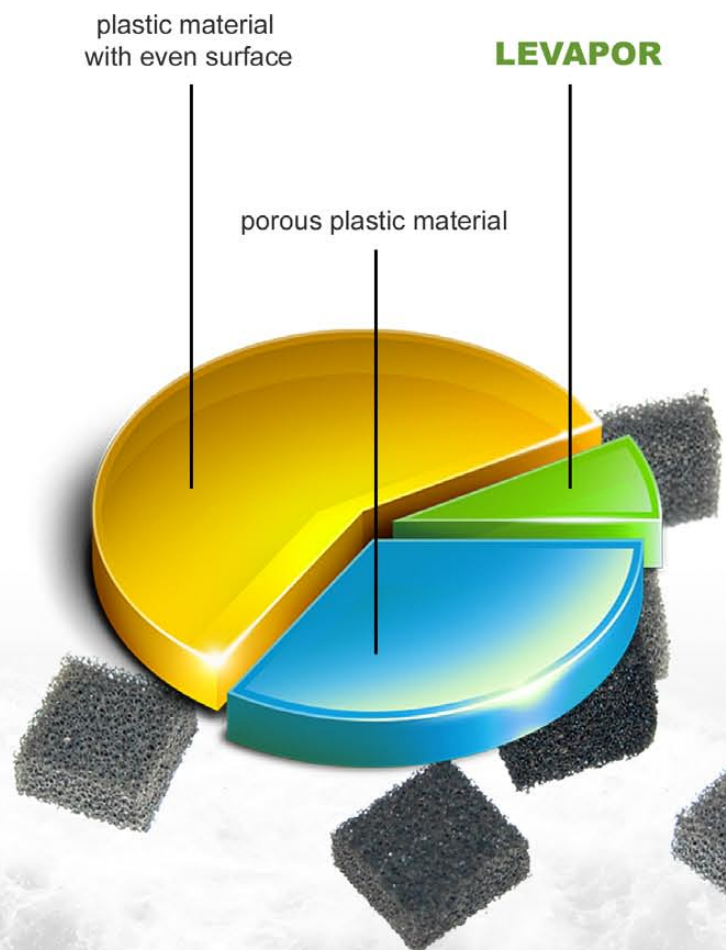
- special adsorbant, porous carrier for microorganisms
- solutions for biological waste water, waste gas treatment and desoodoration

Advantages of using LEVAPOR

- Only **15%** of the reactor volume, compared to carrier made of polyurethane or other plastics with **45% to 70%** degree of filling!
- **An increase in biomass concentration, resulting in**
 - higher process stability
 - higher volume / time yield
 - smaller reactor volume
 - higher sludge age
- **Effective protection of the microorganisms against**
 - toxic shocks loads and inhibiting substances by adsorption and
 - shear forces by internal porosity
- **Possibility of upgrading existing activated sludge plants**
- **Fast and complete colonisation of the carrier surface with active biomass**
- **Effective mass transfer into the microbial cell**
- **Automatic separation of the excess sludge from the carrier surface**
- **Anaerob- and aerob treatment**
- **Enzymatically enhanced sludge digestion**

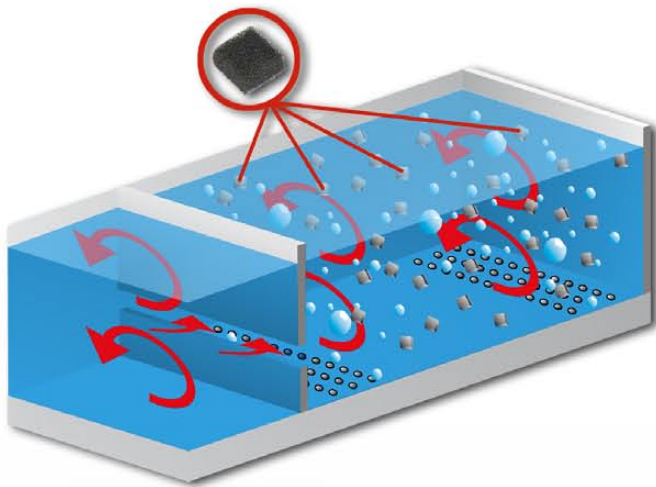
Benefits

- reduced excess sludge production
- increased plant capacity
- enhanced removal of hazardous pollutants



Checkups and required measures for existing plants for the use of LEVAPOR

- Checkup of aeration (type and capacity), if required upgrading.
- Installation of proper sieves for carrier retention in the aerated reactor.



Fields of application

Biological treatment of

- municipal waste water
- industrial waste water
- landfill leachate
- contaminated groundwater
- off gas

by the use of sessile microorganisms.

The use of carriers is recommended in particular for:

- improved nitrification
- pollutants with slow degradation rates
- pollutants inhibiting degradation
- sludge with unfavourable properties



Technical Data

- **Form:** cuboid
- **Dimensions (mm):** 14 x 14 x 7
to 20 x 20 x 7
- **Relative density (kg/m³):** approx. 50
- **Bulk density (kg/m³):** approx. 20
- **Density (g/m³):** approx. 1.1
- **Average sedimentation velocity:**
 - a) without biomass growth,
W₅₀ (m/h): approx. 50
 - b) with biomass growth,
W₅₀ (m/h): approx. 70

Contact:

RALF LOHOFF
Managing Director

Tel.: +34 971 13 72 47
Mobile: +34 626 11 00 21
E-Mail: r.lohoff@biocons.org

Dr. IMRE PASCIK
Biotechnology

Mobile: +49 179 14 92 607
E-Mail: dr.pascik@biocons.org

Bioconsulting and Management Service
C./ Son Sam Pol, 26
07150 Andratx (Balears)

www.biocons.org