Application of Matala® in sedimentation process

- 3-Dimensional fiber distribution, easier to capture the SS in the water.
- The fibers of the Matala® filter media attract particles that conglomerate into flocs.
- Large amounts of sludge can be handled within the media before slippage occurs.
- Short intermicroseparator distances that can sediment out the media.

Application of Matala® in storm water treatment

- Matala® can be applied in secondary storm water treatment for reduction of suspended solids.

Application of Matala® in wetland

- High void space: >85%.
- High pressure bed (volumetric void space: >85%)
- 3% compressed water pressure of 800kPa(Roughly)
- High water drainage capacity.

Application of Matala® in iron removal

- On-Site installation (Underground water iron removal).
- Water pump capacity: 30HP.
- Water capacity: 0.75m³/1min.
- Slurry iron: 1.5ppm.
- Efluent iron: 1ppm.
- Iron removal rate: 99%
- System installed as post-treatment removal (FBA).

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Applications

- Industrial wastewater treatment.
- Marine habitation rehabilitation.
- Grey water treatment.
- Wetland.
- Gas and fluid contact media.
- Air scrubbing.

DISTRIBUTED BY
Features & Benefits

Matala® Filtration Media:
- 3-D fiber web with excellent void space (92% - 98%)
- Available with various specific surface area (1200m²/m³ - 760m²/m³).
- Available with various fiber diameters (0.3mm - 1.95mm).

Working Principle

High filtration efficiency, allows for smaller / less filter tanks.
- Gentle Mixing: random fibers create micro turbulence and a 3-D flow.
- Longer Contact: a turbulent flow results in longer and intensive contact.
- Interstitial spaces enhance build-up of the biofilm.

Choice of types and densities of Matala® are function of your influent water characteristics and target effluent quality. Progressive depth filtration increases the sludge holding capacity and anticipates clogging.

Different shapes (Sheets, Rolls, and Tubes) to fit your existing tanks or space.

Application of Matala® in aerobic wastewater treatment

Adding Matala® in a proper volume ratio to the aerobic chamber will help:
- To stabilize biofilm.
- To reduce the final amount of sludge.
- To build the systems tolerance when influent characteristics and flow rates changes.
- To reach stable effluent quality.

Aerobic Chamber
- BOD Load: 1.5 g/m²/d.
- VRM/VRV FOY ratio: 45%.
- Presence growing biofilm.

Application of Matala® in combined aerobic and anaerobic household wastewater treatment system

On-Site installation for individual household wastewater treatment system
- VRM/VRV FOY ratio: 45% for anaerobic system.
- Aerobic system: 30%.
- System installed as a pre-treatment of standard process in Japan.

Application of Matala® in 2nd treatment and 3rd treatment process

On-Site wastewater treatment installation for small farm (10,000 head of swine)
- Volume Insulated: 180m³/d.
- Primary treatment: active sludge.
- Secondary and tertiary treatment: fixed biofilm reactor, Matala® media.
- Type of Matala® media: SM 55, SM 100, SM 200, SM 300.
- VRM/VRV FOY ratio: 15%.
- Influent: BOD: 30-40mg/L COD: 60-80mg/L.
- Filtered: BOD 5-12mg/L COD 32-35mg/L.