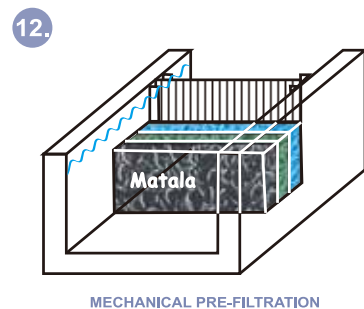
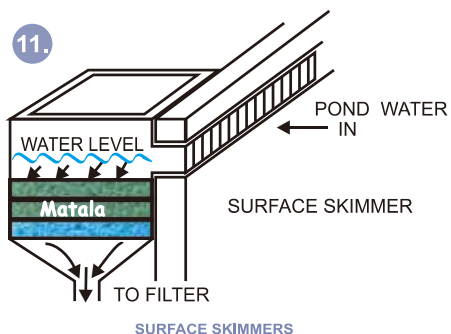


## APPLICATIONS OF Matala® :

1. ROTATING BIO-DISCS
2. SUBMERGED BED FILTERS
3. VORTEX
4. SEDIMENTATION CHAMBERS
5. TRICKLING FILTERS
6. PROTECTION OF FISH FRY / SPAWNING MAT
7. ANTI-CLOGGING OF PUMPS
8. OXYGENATION OR DE-GASSING OF UNDERGROUND WATER
9. SPAWNING MAT
10. PROTECTION OF PLANT BASINS IN PONDS
11. SURFACE SKIMMERS
12. MECHANICAL PRE-FILTRATION



## SPECIFICATIONS:

Matala® Type Product Code	Color	Specific surface ft <sup>2</sup> /ft <sup>3</sup> , m <sup>2</sup> /m <sup>3</sup>	Fiber diameter inches , mm	Free volume%
SM150	Black	46 ± 3 , 150 ± 10	0.0748 , 1.9 ± 0.1	93
FSM190 / SM190	Black	58 ± 3 , 190 ± 10	0.0669 , 1.7 ± 0.1	92
FSM290 / SM290	Green	88 ± 3 , 290 ± 10	0.0354 , 0.9 ± 0.1	93
FSM365 / SM365	Blue	111 ± 3 , 365 ± 10	0.0217 , 0.55 ± 0.1	94
FSM460 / SM460	Gray	140 ± 3 , 460 ± 10	0.0177 , 0.45 ± 0.1	94

\*Product code of "FM" stands for Flex-Matala®.  
\*The above specifications are subject to change without prior notice.

## IN SHEET:

Matala® Type Product Code	Color	Measurements inches , cm Flex - Matala®	Measurements inches , cm Matala®
SM150	Black	—	48x39x1.97 , 120x100x5
FSM190 / SM190	Black	48x39x1.5 , 120x100x3.8	48x39x1.57 , 120x100x4
FSM290 / SM290	Green	48x39x1.5 , 120x100x3.8	48x39x1.57 , 120x100x4
FSM365 / SM365	Blue	48x39x1.5 , 120x100x3.8	48x39x1.57 , 120x100x4
FSM460 / SM460	Gray	48x39x1.5 , 120x100x3.8	48x39x1.57 , 120x100x4

\*Product code of "FM" stands for Flex-Matala®.  
\*The above specifications are subject to change without prior notice.

## IN TUBE:

Matala® Type Product Code	Color	Measurement inches , cm Length: up to 86.6" , 220cm
FTM190-B / TM190-B	Black	Tube A ID: 5.2 ± 0.5 , OD: 10.4 ± 0.5 ID: 2.0" ± 0.2" , OD: 4.1" ± 0.2"
FTM290-B / TM290-B	Green	
FTM365-A / TM365-A	Blue	Tube B ID: 11.0 ± 0.5 , OD: 20 ± 0.5 ID: 4.3" ± 0.2" , OD: 7.9" ± 0.2"
FTM460-A	Gray	

\*Product code of "FM" stands for Flex-Matala®.  
\*The above specifications are subject to change without prior notice.

## IN ROLL:

Matala® Type Product Code	Color	Measurement inches (cm)
FRM190	Black	Height : 6, 15
FRM290	Green	Diameter : 17-48, 43-122
FRM365	Blue	
FRM460	Gray	

\*Product code of "FM" stands for Flex-Matala®.  
\*The above specifications are subject to change without prior notice.

**Matala®**  
" Make water alive "

**MATALA WATER TECHNOLOGY CO., LTD.**  
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Tel: +886-4-2630-4015 Fax: +886-4-2630-4067  
<http://www.matala.com.tw>  
e-mail: [info@matala.com.tw](mailto:info@matala.com.tw)

**Matala®**  
" Make water alive "

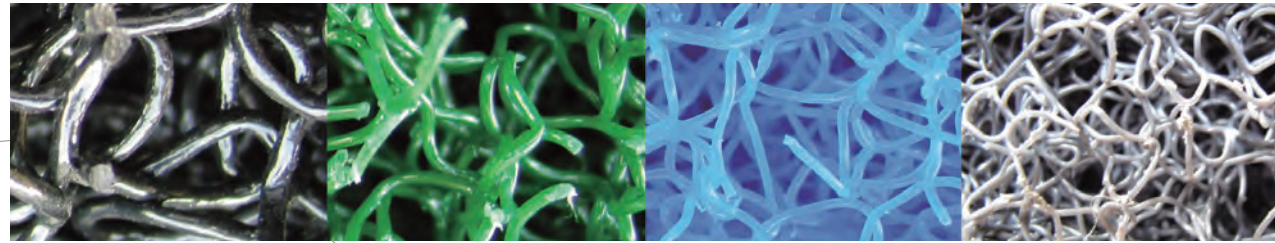


**Think Progressive !**

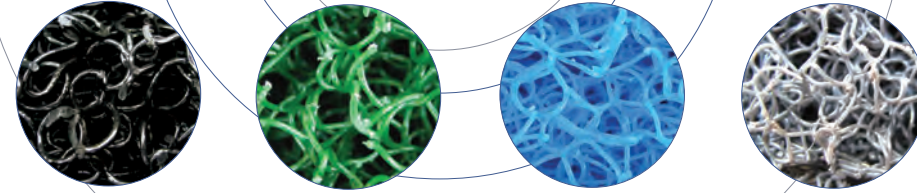


Are you looking for an all-round solution for mechanical and biological filtration?

**Matala®** represents the latest generation of filter media that are rapidly gaining interest in the market. Thanks to the multiple advantages **Matala®** is the ultimate answer for your needs. **Matala®** is made of curly fibre Thermo-Polyethylene Compounds (**TPEC**) or Thermo-Polypropylene Compounds (**TPPC**) that are formed into layers and shapes of different thickness. The formula of the **TPEC** or **TPPC** and the thickness of the fibre used will determine the structure of the filter media, their specific surface, their density and stiffness.



>> Excellent surface area with good adhesion of nitrifying bacteria. A high number of interstitial spaces in the tri-dimensional matrix of the filter media improves an early and even growth of bacteria.



*Think Progressive!*

## Matala® FILTRATION MEDIA ADVANTAGES:



► Hose flushing

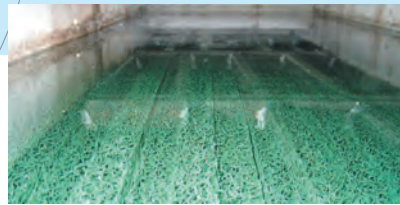
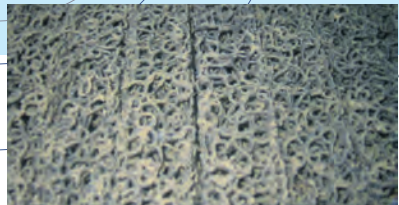
>> Easy cleaning.



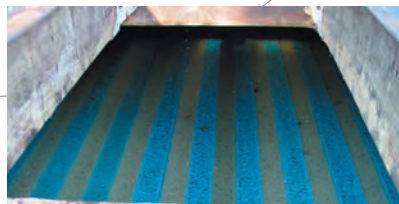
► Rinse and dip

• Precipitation + flock building

• Flock saturation



Application of **Matala®** sheets in submerged filter beds.



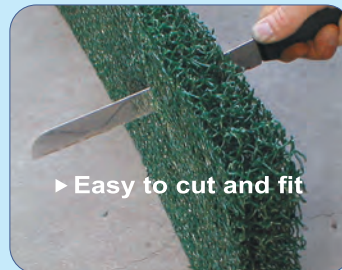
• Flock slug-off

>> Very resistant to plugging. Perfect for prefiltration and sedimentation chambers.



WOODLAND POND TX USA

- 4 densities allow for step-wise transition from mechanical to biological filtration.
- High free volume for smooth, even water flow throughout.



► Easy to cut and fit



► Use hole saw



► Easy slough of flocs.



► T - Matala® and application



► T - Matala® for Oil-Water separation

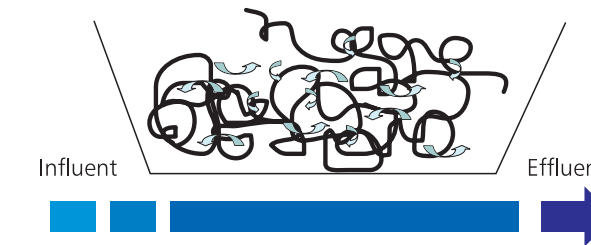


► R - Matala®



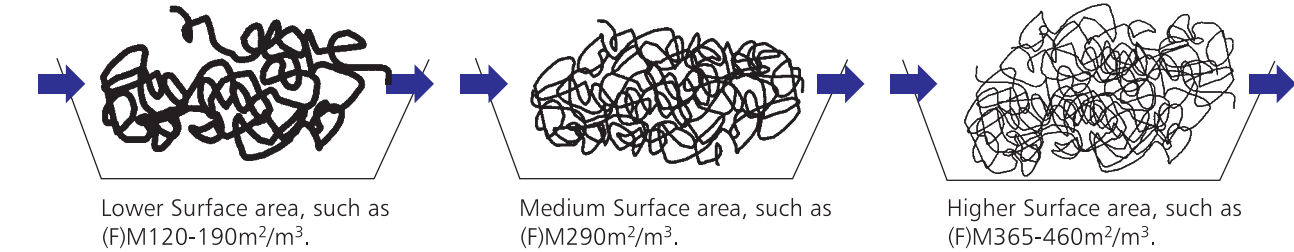
► R - Matala® and application

## 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.



Lower Surface area, such as (F)M120-190m<sup>2</sup>/m<sup>3</sup>.

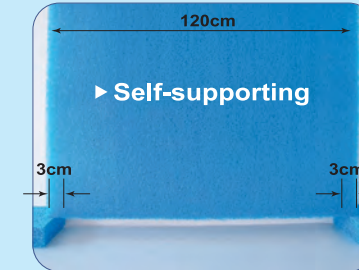
Medium Surface area, such as (F)M290m<sup>2</sup>/m<sup>3</sup>.

Higher Surface area, such as (F)M365-460m<sup>2</sup>/m<sup>3</sup>.

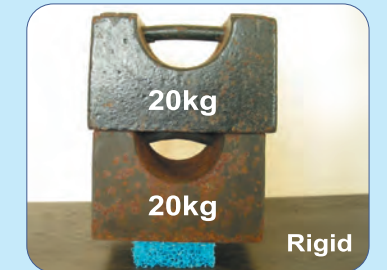
- Light weight.
- Versatile and durable.
- Made of Thermo-polyethylene or Thermo-polypropylene compounds; non-toxic to the environment.



► Form-stable

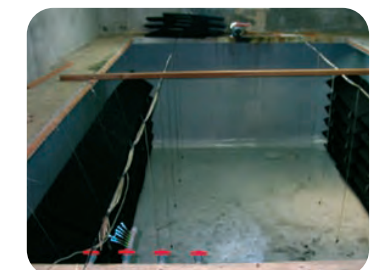


► Self-supporting



20kg  
20kg  
Rigid  
► 40 → 39mm

## In-pond aquatic habitat combined with In-Situ Bio-filtration



KOIMART THAILAND