

A Fresh environment & a clean new life begins with

# Photocatalytic Honeycomb Filter



## Characteristics

- Strong Absorption
- Semi-forever Life
- Enhanced Capacity

## Performance

- Dissolves hazardous gases
- Deodorizes
- Sterilizes most germs

## Specifications

Category	Details
Material	Active Carbon, Ceramic Fiber, Photocatalytic Powder
Dimension	STD 300 x 300, MAX 600 x 600 (10t) / Thickness Adjustable
Deodorizing Capability	15mg (STD Size)
Loss of Pressure	3.0 - 5.0 (Based on 10t)
Applicability	Air Purifier, Air Conditioner, etc.

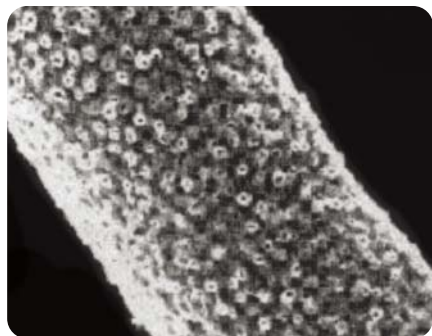
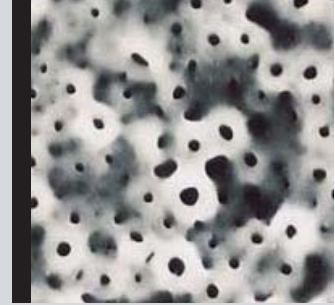


**Applied products**  
Air sterilization purifier MediCare

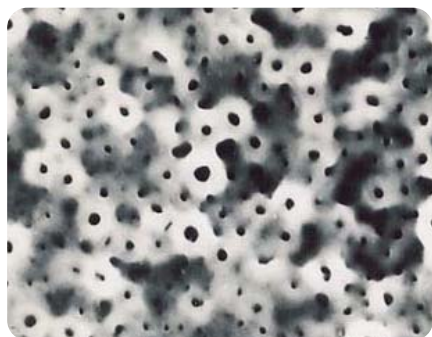
## Comparisons

Category	Enputech Honeycomb Filter	Urethane Foam Filter	Aluminum Mesh	Urethane Foam Filter
Material	Active Carbon, Ceramic Fiber, Photocatalytic Powder	Active Carbon & Photocatalytic coated on Urethane	Photocalalyst coated on Aluminum Mesh	Ceramic Photocatalytic Powder
Absorption Performance	High	Somewhat	No	High
Capacity	High	Medium	Low	High
Durability	Semi-forever	About 2 Years	Semi-forever	Semi-forever
Economy	Good	Needs replacements	Expensive for performance	Expensive. Difficult to Manufacture

# A Fresh environment & a clean new life begins with TiO<sub>2</sub> Photocatalytic Fiber



Picture of Product Surface



Pictures of the face of the Photocatalytic Fiber.

## Characteristics

Has a wider surface by absenting binders.  
(One gram comparable to a football field in surface.)

- Hard to strip particles fixated fast on the fiber.
- Resists humidity.
- Economical by saving re-cycling facilities in water treatment.
- Allows various forms of filters.

## TiO<sub>2</sub> fiber

- Has a wider surface by absenting binders.
- Has small particles (7 - 10nm)
- Resists Humidity.

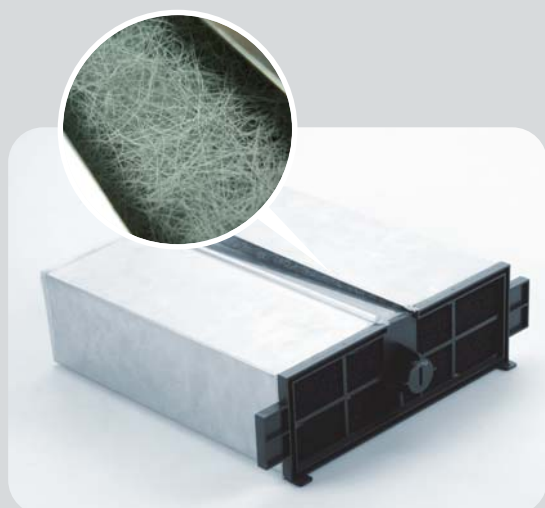
## Abstract

- Fiber-shaped
- Active Titanium fiber in 50 $\mu$ m diameter with activated TiO<sub>2</sub> fixed on it
- No photocatalytic powder coated.
- Most suitable for water treatment

## Test Results

Deodorization Efficiency	5 min	15 min	30 min	60 min
Ammonia	95.0%	97.5%	98.7%	98.7%
Trimethylamine	85.0%	90.0%	94.4%	94.4%
Perchloromethyl	90.9%	92.0%	94.4%	98.8%
Formaldehyde	86.7%	91.7%	95.5%	98.0%
Acetaldehyde	89.3%	92.9%	96.3%	99.2%

(FITI Testing and Research Institute 14. July. 2003)



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