



# COCONUT FILTER

MANUFACTURER, PRODUCER,  
DEVELOPMENT PARTNER

WATER  
CHANGES  
LIFE



coconut

coconut



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W H O

W E

A R E



Established in 2019,  
Coconut Filter is the specialist  
in compressed carbon block  
manufacturing industry and  
materials development of water  
treatment solutions including  
VOCs eliminating, TOC removal,  
Heavy metals reduction, Anti-  
microbial, pH Control, Scale Guard,  
Sewage treatment equipment,  
Total-phosphate reduction etc.



03

Coconut Filter makes much of value of trust with our customers. We constantly strive to offer new solutions and to enhance the products quality and of its competitiveness for our customers. For such purpose, we have well-experienced engineers who qualified expertise to state-of-the-art equipment and researchers who have the highest level of R&D capability. From idea design to mass production, we also equipped mass order production system to meet our customer's requirements. We, Coconut Filter hopes to be your development partner for creating new business opportunities.

COCONUT





## Manufacturer

To provide the values For the customer,  
We make the opportunities with our custom carbon block.  
The opportunities what we makes,  
outclass the market in cost, quality, quick response, and combination of one or more.



## Producer

To realize the values Of the customer,  
We make the goods with our exceptional technology.  
The goods what we makes,  
Enhance the highest levels of customer's expectations and requirements.



## Development Partner

To create the values By the customer,  
We make the business relationship with our customer.  
The business relationship what we makes,  
Design your specific needs for prosperous future between you and us.

# WHAT TECHNOLOGY WE HAVE \_\_\_\_\_



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## Breaking The Limits

Our Magic Dispersion Technology overcomes the limit of irregularity between the granularity and specific gravity which comes from the individual materials such as binding agents and other media compared with the existed carbon block.

Secondly, the lack of filter volume's structural uniformity may cause the solidity and strength decrease of carbon block, however, our Magic Dispersion Technology can take those concerns away.

Using additional additives in carbon block commonly leads to the filter performance degradation consecutively, the imperfection of contaminants removal and the costly issues are followed. Another advantage of our Magic Dispersion Technology enables our products to go beyond those limitations of the existed carbon block.

## Homogeneous Pore Structure

Our Magic Dispersion Technology is a better choice because it realizes homogeneous dispersion pore structure.

Also it provides high density and multiple pore network in the carbon block as well.

Finally, our UHDT enables us to offer the best quality compressed carbon block in the world.

## Less Binder, More Capacity

**USING 10w% BINDER ONLY, BUT, REALIZING 100w% PRODUCT PERFORMANCE**

Our Magic Dispersion Technology reduces the quantity of binder consumed, whereas, it improves the filter performance.

## The Least is The Best

Our Magic Dispersion Technology suggests new paradigm of our compressed carbon block market. The new paradigm through our Magic Dispersion Technology can offer the benefits to our customer as follows.

- ✓ Eco-friendly products by using the least quantity of binder.
- ✓ Cost reduction products by using the least quantity of binder.
- ✓ High functional composite products by additional using additives thanks to the least binder.
- ✓ Multi-functional hybrid products by making use of various agents through the least binder.
- ✓ Variability in filter shape products by decreasing the filter volume due to the least binder.



Customizing, Optimizing Your Filter

**MAGIC DISPERSION**  
**TECHNOLOGY CAN DO**

# WHAT BUSINESS WE DO

## CARBON BLOCK



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## MATERIALS



## WHAT PRODUCTS WE MAKE

# RESIDENTIAL HOME APPLIANCES SERIES



### APPLICATIONS

- WATER PURIFIER
- REFRIGERATOR
- DISH WASHER
- WASHING MACHINE
- SHOWER HEAD
- BIDET



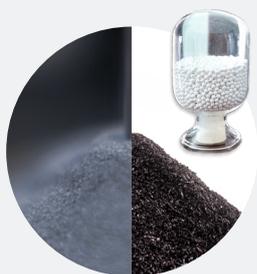
### PRODUCT SPECIFICATION

- OUTER DIAMETER : 21mm ~ 54mm
- INNER DIAMETER : 8mm ~ 30mm
- LENGTH : 70mm(min) ~ 250mm(max)
- NOMINAL  $\mu\text{m}$  RATING (Pore Size) : 0.5 ~ 10  $\mu\text{m}$
- TEMPERATURE : 4 ~ 38°C
- DESTRUCTIVE STRENGTH : Over 5.5kgf/cm<sup>2</sup>
- FILTRATION TYPE : Mechanical / Chemical / Chemisorption

### OPTIONAL PERFORMANCE

- CHLORINE CAPACITY
- FLOW RATE
- TUBIDITY
- PARTICLE REDUCTION

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### CONTAMINANTS REDUCTION OBJECTIVES

- TOC
- VOCs
- HEAVY METALS : Pb, Hg, Cu, Al, Cd, Fe, As, Mn, Zn, Cr
- ANTI-MICROBIAL
- ALKALINE pH CONTROL



### ADDITIONAL OPTIONS

- NON-WOVEN FABRICS (OUTER WRAP)
- SCREEN MESH
- PP SEDIMENT
- CAPS
- GASKETS
- O-RING

IT MAKES YOU A SAFE CHOICE

# WHAT PRODUCTS WE MAKE

## COMMERCIAL SERIES

**CARBON  
BLOCK**



### APPLICATIONS

- RESTAURANT
- MULTI-USE FACILITIES
- CAFE

### PRODUCT SPECIFICATION

- OUTER DIAMETER : 38mm ~ 63mm
- INNER DIAMETER: 10mm ~ 30mm
- LENGTH : 200mm(min) ~ 500mm(max)
- NOMINAL  $\mu\text{m}$  RATING : 0.5 ~ 10  $\mu\text{m}$
- TEMPERATURE : 4 ~ 38°C
- DESTRUCTIVE STRENGTH : Over 20kgf/cm<sup>2</sup>
- FILTRATION TYPE : Mechanical / Chemical / Chemisorption

### OPTIONAL PERFORMANCE

- CHLORINE CAPACITY
- FLOW RATE
- TUBIDITY
- PARTICLE REDUCTION

### CONTAMINANTS REDUCTION OBJECTIVES

- TOC
- VOCs
- HEAVY METALS : Pb, Hg, Cu, Al, Cd, Fe, As, Mn, Zn, Cr
- ANTI-MICROBIAL
- ALKALINE pH CONTROL

### ADDITIONAL OPTIONS

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- CAPS
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## WHAT PRODUCTS WE MAKE

# AGRICULTURAL INDUSTRY SERIES



### APPLICATIONS

- SMART FARMING
- AGRICULTURAL PRODUCTION FACILITIES

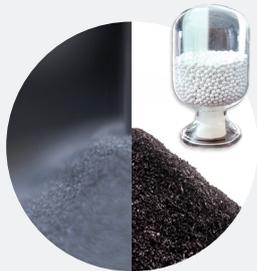


### PRODUCT SPECIFICATION

- OUTER DIAMETER : 54mm ~ 63mm
- INNER DIAMETER : 30mm
- LENGTH : 200mm(min) ~
- NOMINAL  $\mu\text{m}$  RATING : 5 ~ 10  $\mu\text{m}$
- TEMPERATURE : 4 ~ 38°C
- DESTRUCTIVE STRENGTH : Over 20kgf/cm<sup>2</sup>
- FILTRATION TYPE : Mechanical / Chemical / Chemisorption

### OPTIONAL PERFORMANCE

- CHLORINE CAPACITY
- FLOW RATE
- TUBIDITY
- PARTICLE REDUCTION



### CONTAMINANTS REDUCTION OBJECTIVES

- TOC
- VOCs
- HEAVY METALS :  
Pb, Hg, Cu, Al, Cd, Fe, As, Mn, Zn, Cr
- ALKALINE pH CONTROL



### ADDITIONAL OPTIONS

- NON-WOVEN FABRICS (OUTER WRAP)
- SCREEN MESH
- PP SEDIMENT
- CAPS
- GASKETS
- O-RING

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# WHAT PRODUCTS WE MAKE

## INDUSTRIAL SERIES

**CARBON  
BLOCK**



### APPLICATIONS

- SEWAGE TREATMENT PLANT
- WATER PURIFICATION PLANT

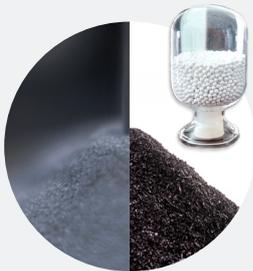
### PRODUCT SPECIFICATION

- OUTER DIAMETER : 54mm ~ 63mm
- INNER DIAMETER : 30mm
- LENGTH : 200mm(min) ~
- NOMINAL  $\mu\text{m}$  RATING : 0.5-10  $\mu\text{m}$
- TEMPERATURE : 4 ~ 38°C
- DESTRUCTIVE STRENGTH : Over 20kgf/cm<sup>2</sup>

### OPTIONAL PERFORMANCE

- CHLORINE CAPACITY
- FLOW RATE
- TUBIDITY
- PARTICLE REDUCTION

### CONTAMINANTS REDUCTION OBJECTIVES



- TOC
- VOCs
- HEAVY METALS : Pb, Hg, Cu, Al, Cd, Fe, As, Mn, Zn, Cr

### ADDITIONAL OPTIONS

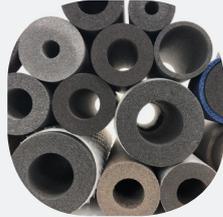


- NON-WOVEN FABRICS (OUTER WRAP)
- SCREEN MESH
- PP SEDIMENT
- CAPS
- GASKETS
- O-RING

## WHAT PRODUCTS WE MAKE

# MULTI - FUNCTIONAL PREMIUM SERIES

CARBON  
BLOCK



### HEAVY METAL REMOVAL

#### APPLICATIONS

- HEAVY METAL REMOVAL
- ALKALINE
- ANTI-MICROBIAL
- TOLERANCE BUILD-UP AGAINST HIGH TURBIDITY



#### OPTIONAL PERFORMANCE

- CHLORINE CAPACITY
- FLOW RATE
- TURBIDITY
- PARTICLE REDUCTION

## PRODUCT SPECIFICATION

#### HEAVY METAL 7 Series

- OUTER DIAMETER : 30mm(min) ~
- INNER DIAMETER : 10mm(min) ~
- LENGTH : 130mm ~
- VOLUME : 221 cm<sup>3</sup> ~
- PORE SIZE : 0.5 ~ 3 μm
- TEMPERATURE : 4-38 °C
- DESTRUCTIVE STRENGTH : Over 20kgf/cm<sup>2</sup>

#### HEAVY METAL 9 Series

- OUTER DIAMETER : 30mm(min) ~
- INNER DIAMETER : 10mm(min) ~
- LENGTH : 130mm ~
- VOLUME : 221 cm<sup>3</sup>
- PORE SIZE : 0.5 ~ 3 μm
- TEMPERATURE : 4-38 °C
- DESTRUCTIVE STRENGTH : Over 20kgf/cm<sup>2</sup>



## CONTAMINANTS REDUCTION OBJECTIVES

- HEAVY METALS 7 Series : Pb, Hg, Cu, Al, Cd, Fe, As
- HEAVY METALS 8 Series : Pb, Hg, Cu, Al, Cd, Fe, As, Cr
- HEAVY METALS 9 Series : Pb, Hg, Cu, Al, Cd, Fe, As, Mn, Zn
- NSF : LEAD, MERCURY (200gal-)



## ADDITIONAL OPTIONS

- NON-WOVEN FABRICS (OUTER WRAP)
- SCREEN MESH
- PP SEDIMENT
- CAPS
- GASKETS
- O-RING

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## WHAT PRODUCTS WE MAKE

# MULTI - FUNCTIONAL PREMIUM SERIES

**CARBON  
BLOCK**



### ALKALINE

#### APPLICATIONS

- HEAVY METAL REMOVAL
- ALKALINE
- ANTI-MICROBIAL
- TOLERANCE BUILD-UP AGAINST HIGH TURBIDITY

## PRODUCT SPECIFICATON

### ALKALINE Series

- OUTER DIAMETER : 42mm(min) ~
- INNER DIAMETER : 21mm ~
- LENGTH : 130mm ~
- PORE SIZE : 3-5  $\mu$ m
- TEMPERATURE : 4-38 °C
- DESTRUCTIVE STRENGTH : Over 20kgf/cm<sup>2</sup>

#### OPTIONAL PERFORMANCE

- CHLORINE CAPACITY
- FLOW RATE
- TUBIDITY
- PARTICLE REDUCTION

## CONTAMINANTS REDUCTION OBJECTIVES



- pH CONTROL RANGE : pH 7 ~ pH 8.5
- UPPER pH LIMIT : pH 8.5
- pH CAPACITY : 2,000L ~ (ON/OFF TEST)
- NSF/ANSI 61 Certified Materials Used (Calcium Carbonate)

## ADDITIONAL OPTIONS

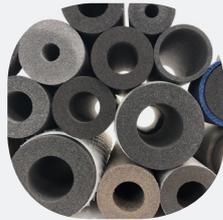


- NON-WOVEN FABRICS (OUTER WRAP)
- GASKETS
- SCREEN MESH
- O-RING
- PP SEDIMENT
- CAPS

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## WHAT PRODUCTS WE MAKE

# MULTI - FUNCTIONAL PREMIUM SERIES



### ANTI-MICROBIAL

**APPLICATIONS**

- ALKALINE
- ANTI-MICROBIAL
- TOLERANCE BUILD-UP AGAINST HIGH TURBIDITY
- HEAVY METAL REMOVAL



## PRODUCT SPECIFICATON

### ANTI MICROBIAL Series

- OUTER DIAMETER : 21mm ~ 54mm
- INNER DIAMETER : 8mm ~ 30mm
- LENGTH : 90mm(min) ~ 250mm(max)
- PORE SIZE : 0.5-3  $\mu$ m
- TEMPERATURE : 4 ~ 38 °C
- DESTRUCTIVE STRENGTH : Over 20kgf/cm<sup>2</sup>

**OPTIONAL PERFORMANCE**

- CHLORINE CAPACITY
- FLOW RATE
- TUBIDITY
- PARTICLE REDUCTION



## CONTAMINANTS REDUCTION OBJECTIVES

- E-COLI / FUNGI / ALGAE / (+) Virus
- TOC
- FILTRATION TYPE : Mechanical/electric reduction
- VOCs
- NSF/ANSI 61 Certified Materials Used (Brass / Silver)
- HEAVY METALS



## ADDITIONAL OPTIONS

- NON-WOVEN FABRICS (OUTER WRAP)
- GASKETS
- SCREEN MESH
- O-RING
- PP SEDIMENT
- CAPS

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## WHAT PRODUCTS WE MAKE

# MULTI - FUNCTIONAL PREMIUM SERIES

**CARBON  
BLOCK**



**TOLERANCE BUILD-UP AGAINST HIGH TURBIDITY**

### APPLICATIONS

- HEAVY METAL REMOVAL
- ALKALINE
- ANTI-MICROBIAL
- TOLERANCE BUILD-UP AGAINST HIGH TURBIDITY

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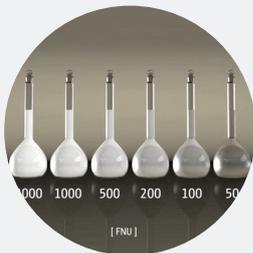
## PRODUCT OPTIONS

**TOLERANCE BUILD-UP AGAINST HIGH TURBIDITY**

- OUTER DIAMETER : 21mm ~ 54mm
- INNER DIAMETER : 8mm ~ 30mm
- LENGTH : 90mm(min) ~ 250mm(max)
- NOMINAL RATING (pore size) : 5-10  $\mu$ m
- TEMPERATURE : 4 ~ 38°C
- DESTRUCTIVE STRENGTH : Over 20kgf/cm<sup>2</sup>

### OPTIONAL PERFORMANCE

- CHLORINE CAPACITY
- FLOW RATE
- TURBIDITY
- PARTICLE REDUCTION



## CONTAMINANTS REDUCTION OBJECTIVES

- BEYOND 30% TURBIDITY
- ENHANCEMENT COMPARED TO OTHER EXISTING CARBON BLOCK
- TOC
- VOCs
- HEAVY METALS : Pb, Hg, Cu, Al, Cd, Fe, As, Mn, Zn, Cr
- ANTI-MICROBIAL
- ALKALINE pH CONTROL



## ADDITIONAL OPTIONS

- NON-WOVEN FABRICS (OUTER WRAP)
- SCREEN MESH
- PP SEDIMENT
- CAPS
- GASKETS
- O-RING

## WHAT MATERIALS WE OFFER

# COCONUT SHELL ACTIVATED CARBON



### APPLICATIONS

- RESIDENTIAL WATER PURIFIER FILTER
- COMMERCIAL WATER PURIFIER FILTER
- INDUSTRIAL TREATMENT FACILITIES
- AGRICULTURAL PRODUCTION FACILITIES
- EQUIPMENT FOR HOT WATER, BOILER



### MATERIAL SPECIFICATION

#### FOR PRE FILTER USE

- MESH SIZE : 12 x 30 / 12 x 40
- pH VALUE : pH 6 - pH 8
- WASH TYPE : ACID WASH
- IODINE ADSORPTION VALUE :  
1,000 mg/g ↑

#### FOR POST FILTER USE

- MESH SIZE : 20 x 40 / 12 x 60
- pH VALUE : pH 6 - pH 8
- WASH TYPE : ACID WASH
- IODINE ADSORPTION VALUE :  
1,000 mg/g ↑



### MATERIAL FEATURES

- INCREASE THE POROSITY FOR ADSORPTION WITH LARGE SURFACE AREA
- ELIMINATING FOR AESTHETIC EFFECTS OF TASTE, ODOR AND COLOR
- ELIMINATING FOR ORGANIC COMPOUNDS



### ADDITIONAL OPTIONS

- PACKAGES : 25kg in Paper bag / 500kg in bulk bag

IT MAKES YOU A SAFE CHOICE

# WHAT MATERIALS WE OFFER

## SCALE GUARD



### APPLICATIONS

- RESIDENTIAL WATER PURIFIER FILTER
- COMMERCIAL WATER PURIFIER FILTER
- INDUSTRIAL TREATMENT FACILITIES
- AGRICULTURAL PRODUCTION FACILITIES
- EQUIPMENT FOR HOT WATER, BOILER

### MATERIAL SPECIFICATION



- MEDIA SHAPE : POWDER / PELLET / BALL / TABLET
- MEDIA SIZE : 70-500µm / 1-3mm / 3mm / 5-18mm
- USAGE : CARBON BLOCK / HOUSING / HOUSING / SOAKING IN TANKS
- CAPACITY : 500L/gram ~ 1,000L/gram

### MATERIAL FEATURES



- RoHS- II COMPLIANT MATERIAL
- VARIOUS MATERIAL SIZES AND SHAPES
- SLOWLY SOLUBLE POLYPHOSPHATE OF HIGH PURITY
- SCALE PROTECTION FROM WATERWORKS PIPE THROUGH COMBINING WITH Ca, Mg AND Fe
- HIGH DISSOLUTION RATE UNDER THE CIRCUMSTANCES LIKE TEMPERATURE AND pH VALUE
- STABLE DISSOLUTION RATE RESULTED IN HIGH CAPACITY
- EASY TO FIND PRODUCT LIFE CYCLE

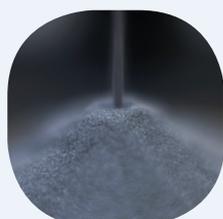
### APPLICATIONS



- Water Wells
- Dish washing Equipment
- Ice Making Machines
- RO Equipment
- Boilers & Cooling Towers
- Ultrapure Water Equipment
- Whole House Water System
- Coffee Machines
- Shower Filter
- Traditional & Tankless Water Heater
- Heat Exchange Equipment

## WHAT MATERIALS WE OFFER

# POROUS FERRIC POWDER ELECTRODE



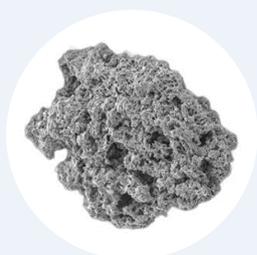
### APPLICATIONS

- SEWAGE TREATMENT PLANT
- TOTAL PHOSPASTE REDUCTION PLANT
- ELECTROCOAGULATION



### MATERIAL SPECIFICATION

- LENGTH : 83.5mm
- HEIGHT : 319.0mm
- WIDTH : 13.1mm
- WEIGHT : 1.34kg ± 0.01kg
- INSTRUCTIONS : DESIGN FRAME AND ELECTRODE PLATES IN ACCORDANCE WITH RAW WATER CONDITIONS AND FLOW RATE



### MATERIAL FEATURES

- AN INOVATIVE AND 100% GREEN ELECTROCOAGULATION TECHNOLOGY
- 10-20 TIMES LARGER SURFACE AREA AND MORE REACTIVITY THAN NORMAL ZERO-VALENT IRON (ZVI) MEDIA
- SPECIALIZED FUNCTIONAL SITES ARE CREATED ON THE MEDIA SURFACE TO KEEP THE WATER pH UNCHANGED
- HIGHLY EFFICIENT, ENVIRONMENTALLY FRIENDLY SOLUTION TO REMOVE CONTAMINANTS FROM DRINKING WATER
- EXCEPTIONALLY WELL SUITED FOR AREAS WHERE EXISTINIG WATER SUPPLIES HAVE COMPRIMISED NATURALLY OR BY A LEGACY OF AGRICURAL AND INDUSTRIAL ACTIVITY



### APPLICATIONS

- HOSPITAL WASTEWATER TREATMENT
- FOOD WASTEWATER TREATMENT
- SEWAGE PURIFICATON
- METAL PLATING WASTEWATER TREATMENT
- LANDFILL LEACHATE TREATMENT
- DYEING WASTEWATER TREATMENT
- PAPER INDUSTRY WASTEWATER TREATMENT
- OTHER INDUSTRIAL WASTEWATER TREATMENT

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# COCONUT FILTER

MANUFACTURER, PRODUCER, DEVELOPMENT PARTNER

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