

In-depth PP Filter Cartridge

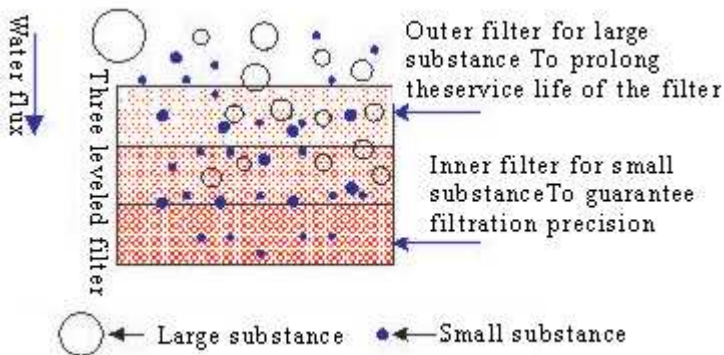


PP Structural Picture

The in-depth PP filter is a multi-leveled comprehensive filter, It is made by the manufacturing technology we developed. It is kind of Melt-Blown three leveled PP impurity filter, produced by three different diameters of nozzles. The product is structured with three different fibers, the inside is thin fiber and the outside is with thick fiber. In order to filtrate liquid impurities and reach the best filter efficiency. It could increase the filter impurity capacity, extend the service life and reduce the consumptive material cost.

Characteristics:

1. Three leveled filter, high impurity capacity and long service life
2. High filter efficiency through Melt-Blown superfine fiber
3. 100% pure PP and High anti- chemical quality



Operation conditions:

1. Maximum operation pressure difference: 60°C 1.8kg/cm² ;
20°C 3.2kg/cm²
2. Suggestive pressure difference changes at: 1.5kg/cm²
3. Highest operation temperature: 60°C

Industrial application:

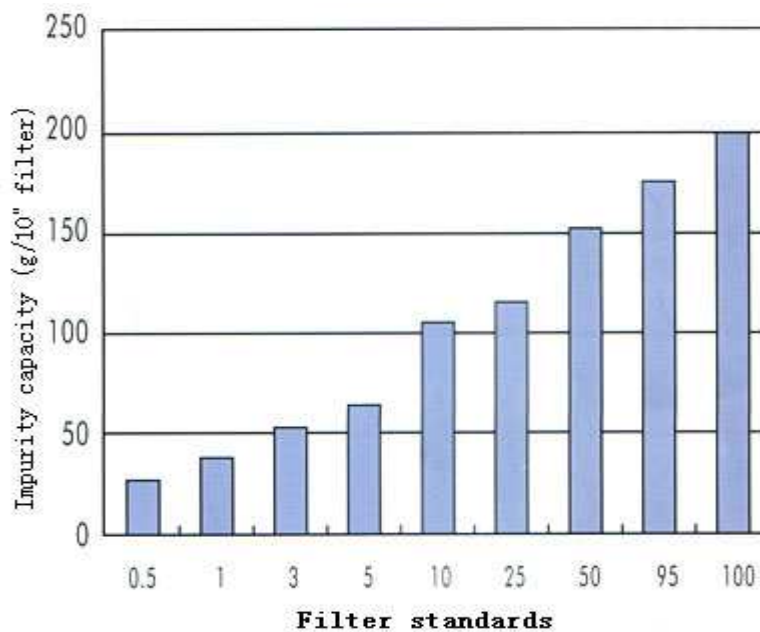
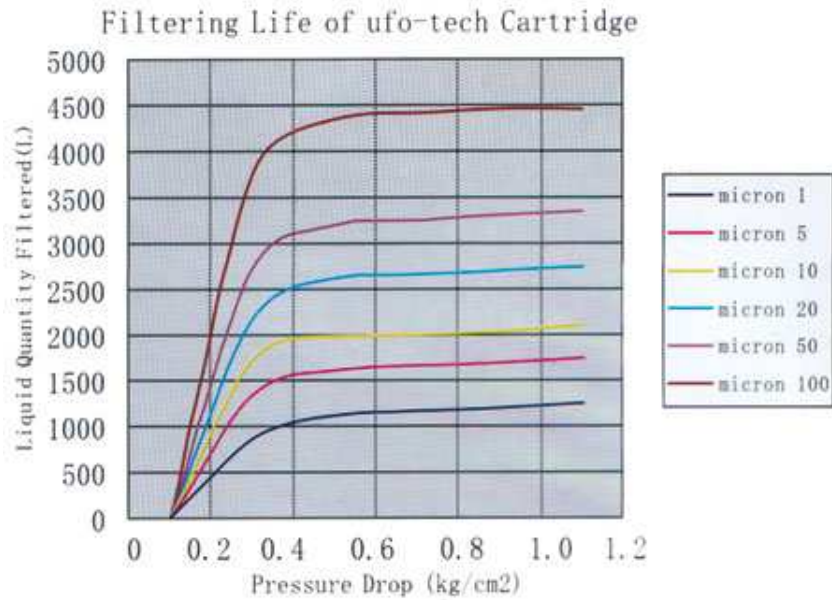
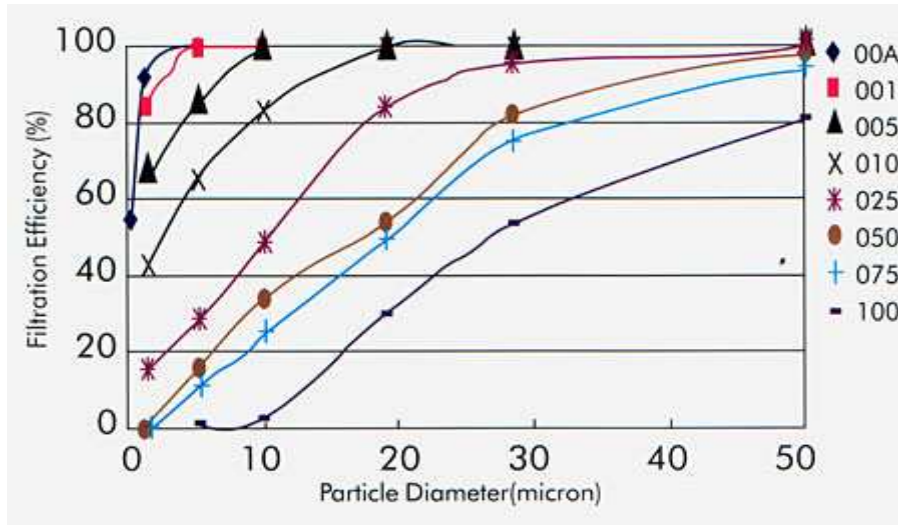
1. Electroplate, etching and development in PCB industry
2. Traditional electroplate liquid filtration
3. Pre-filter for industry aqua pure filter system
4. Low viscosity chemical liquid purify and filtration
5. Engineering and recycling water filtration.

Specification:

1. Nominal rating: normal 0.5, 1, 3, 5, 10, 25, 50, 75, 100 micron
2. Materials of construction: 100% melt-blown thin PP fiber
3. Length: 9.87", 10", 20", 30", 40"
(251mm, 254mm, 508mm, 762mm, 1016mm)
4. Core diameter: 28mm
5. Outside diameter: 63mm

Joint end caps and thread filter





Activated Carbon Filter Cartridge

The production process of activated carbon can be divided into two procedures: Carbonization and Activation.



Carbonization is a process in which the material is turned into porous carbon structure through pyrolysis under conditions of lacking oxygen and between the temperatures 300-500°C. During carbonization, most of non-carbon elements (i.e. oxyhydrogen) will be eliminated as volatile gas by decomposition procedure of material. Such carbonization product (carbon atom combination) – the piece structure of polycyclic aromatic hydrocarbons, PAHs, due to it's difform, the chink will become the pore structure in activation procedure.



Theory:

The activated carbon is oxidize the coconut shells, charcoal, wood or coal under high temperatures. Make them become the particles with many small pores inside. The hole on the surface is wider and become narrower inner, and finally sealed itself inside. The width of pore is from several angstrom to tens of thousands of angstrom.

For 1 gram of Activated carbon, the measure of area for pore is about 1,500 square meter. The activated carbon is using pores to absorb chlorine and organic matter. Regarding the "Adsorption" and "absorption", there is one letter different in spelling, but their effect is total different. Absorption is to adhere impurity to the surface of the activated carbon, two objects will not turn into one and bring any chemical reaction. Thus, after using several times, the activated carbon will lose adsorption effectiveness and can't be used anymore then need to make a replacement.



The water's dissolubility impurities, except iron, manganese etc. some organic matter are also included. Lots of industrial chemical material or by-products don't be handled by environmental protection way, and just be pour out to the ground or river casually. There are over ten thousand industrial waste material through groundwater or river water source place and become our drinking water source. Waste material including many kind of inorganic and organic matters chemical composition, it's not easy and impossible to check each of them out. The adsorption to the organic material and some chemical medicine (i.e chlorine) is very effective. Adsorption is using object's surface pores to absorb some impurities, the most representative material is activated carbon.

Carbon powder			
Standard \ Model	UC-1	UC-2	UC-3
Particular diameter	200-325		
Crocking of methylene blue	195	180	165
Iodine value	1100	1000	900
Surface area	1050	950	850
Ash content	5	5	5
Moisture content% Max	8	8	8
* Removal of impurity in electroplate liquid and disposal of electroplate waste water * Refining and discoloring of edible oil, dyer, medicine and beverage * Process additives of purified water and running water * Process additives of sewage, better results if used with organism processing equipment			

U.S. Mesh Standard			
Sieve Number	mm	Sieve Number	mm
1/4	6.6	25	0.71
4	4.75	30	0.6
6	3.35	35	0.5
7	2.8	40	0.43
8	2.36	50	0.3
10	2	60	0.25
12	1.7	70	0.21
14	1.4	100	0.15
16	1.18	200	0.08
18	1	325	0.05
20	0.85		

Pleated Filter Cartridge

PP pleated filter cartridge is a kind of advanced deep filter , the nominal rating range is from 0.1 um to 60 um. The filter membrane, its filter precision is not affected by the material loaded pressure and it has the low differential pressure, high flux, excellent filter efficiency and lower cost. It's new type of filter and deeply accepted by the users, and it's being substituted for string wound, cardboard etc... unfixed type filters.



Characteristics:

Chemistry compatibility widely, large flux, low differential pressure, long service life, nominal rating range extensively, multiple options, may satisfy the each kind of application. It could be cleaned by ordinary way and using the high-pressured disinfection cabinet and steam for disinfection.

Typical application:

1. Electronic industry: pre-filter for reverse osmosis equipment, and deionized water system.
2. Food industry: beverages, beer and mineral water etc.
3. Chemical industry: organic dissolvent and ink.
4. Medicine industry: medicine, organism, plasma, compressed air and air.
5. Others: electroplate solution, metal cutting solution and magnetic medium etc.



Operation conditions:

1. Maximum operation pressure difference: 95°C 1.4 kg/cm² ; 60°C 2.8 kg/cm² ; 20°C 4.9 kg/cm²
2. Suggestive pressure difference changes at:2.5 kg/cm²
3. Highest operation temperature: 95°C
4. Bacteria extermination conditions:121°C, over 10 times/ 30 min

Product application fields:

1. Pre-filter for membrane filter
2. CD , DVD factory wash tank filter
3. Pre-filter for DI water system.
4. The cooling water system filters (PCW)
5. Beer and beverage factories clear and filters
6. Middle and low viscosity chemical solution filter

Product standard:

1. Nominal rating: Absolute rating 0.1, 0.2 , 0.45 , 1 , 5 , 10 , 20 micron
2. Filter material: 100% melt-blown superfine PP fiber
3. Strut material: PP fiber
4. End Caps: Strong PP
5. O-ring material: EPDM, Buna N, Silicone, Viton, Viton encapsulated PFA
6. Filter area: >0.5 m²
7. Size: 5", 10", 20", 30", 40"
Connection: plane press, insert and card-in type
8. Core diameter: \varnothing 28mm
9. Outside diameter: \varnothing 70mm

String Wound Filter Cartridge

Characteristics:

1. High filter efficiency
2. Large flux and small differential pressure
3. Long service life

Product standards:

1. Nominal rating : normal 0.5, 1, 3, 5, 10, 25, 50, 75, 100 micron
2. Size: 9.87", 10", 20", 30", 40"
(251mm, 254mm, 508mm, 762mm, 1016mm)
3. Core diameter: 30mm
4. Outside diameter: 63mm



Application:

1. Electronic and electrical industry: pure water, gas, electroplate solution and printing circuit board
2. Chemical and petrochemical industry: dissolvent, paint and detergent
3. Medicine and pharmaceuticals industry: water used by hospitals
4. Food industry: beverage, drinks and alcohols

Stainless Steel Filter

Nominal rating: normal 5, 10, 25, 50, 80, 100, 140, 200, 250, 300, 400, 500, 1000 micron

Length: 250mm, 500mm, 508mm, 750mm, 762mm

Core diameter: 28mm , 30mm

Outside diameter: 60mm, 63mm, 65mm, 70mm

Recommended maximum differential pressure : 1 MPa

Maximum operating temperature: 750°C

Maximum flow rate : 4500 L/H



Big DIA Compatible Filter Cartridges

Big PP filter cartridge :

Core diameter : 28 mm , 30 mm
 Outside diameter : 110 mm
 Length : 250 mm , 254 mm , 500 mm , 508 mm

Big Activated carbon filter cartridge :

Core diameter : 28 mm , 30 mm
 Outside diameter : 110 mm
 Length : 250 mm , 254 mm , 500 mm , 508 mm

Big String wound filter cartridge :

Core diameter : 28 mm , 30 mm
 Outside diameter : 110 mm
 Length : 250 mm , 254 mm , 500 mm , 508 mm

Big pleated filter cartridge :

Core diameter : 28 mm , 30 mm
 Outside diameter : 115 mm
 Length : 250 mm , 254 mm , 500 mm , 508 mm



Bag Filter

Material: PP,PE,NYLON,TEFLON,NOMEX and various weaving cotton cloth and other cloth

Model: sewed bag filter, hot melt bag filter

Ring: PP, stainless steel, galvanized iron sheet, spring iron sheet

Precision: 0.5-1000 um

Standard: Model #1 (7×16.5inch, 2.3ft², 90GPM)

Model #2 (7×32inch, 4.7ft², 200GPM)

Model #3 (4×8inch, 0.7ft², 25GPM)

Model #4 (4×14inch, 1.2ft², 45GPM)

Bag filter for plastic bag filter machines

Able to make bag filters and net filters of different materials, sizes and standards



SS Bag-housing

Made by strictly selected stainless steel material, ranging from small for laboratories to high flow types for maximum filtration requirements.

Compatible bag filters are available.



SS Cartridge-housing

SS cartridge housings are made by strictly selected stainless steel material, from small for laboratories to high flow types for maximum filtration requirements.

Cartridge housings (5~7 cartridges*10~40")

Standard connection: 2" NPT or 2" Flange

Compatible filter cartridge and SS Bag-housing are available.



Plastic housings



Size: from small 5" to big blue 20"

Regular housings in 5" and 10":

1. Made of high quality FDA grade reinforced AS resin and PP polymer
2. Suitable for regular cartridge 5" or 10" (DOE)
3. Port size: 1/4", 1/2"
4. Optional enhanced cap with port 3/4"



Enhanced housings in 20":

1. Made of high quality FDA grade reinforced AS resin and PP polymer
2. Suitable for regular cartridge 20" (DOE)
3. Port size: 1/4", 1/2", 3/4", 1"



Big blue housings in 10" and 20":

1. Made of high quality FDA grade reinforced PP polymer
2. Suitable for big blue cartridge (dia. 4", DOE)
3. Port size: 1" NPT



Housing packages are also available.

Absorbent Sponge Roller

Application: wet sopping roller for circuit board

Characteristics: good moisture absorption, heat resisting up to 60°C

The product is popular in PCB industry with its wide application and low price.



PVA sponge roller

Application: for printed circuit board equipment.

Character: hydrophilic, superior absorbent, temperature resistance: 60°C.

Versatility, low price, common used for PCB industry.

PVC sponge roller

1. Application: chemical liquid resistant sopping roller of etching section, wet roller
2. Characteristics: not dry and hard, heat resisting up to 60°C, good moisture absorption, chemical resistance (30 for each sulphuric acid and hydrochloric acid, 10% respectively for phosphoric acid, sodium hydroxide and ammonia water)
3. The product is especially for rollers with etching section and chemical resistant rollers that need not to key wet after being dried.

PU sponge roller

1. Application: the dried front part of roller of printing circuit board equipment
2. Characteristics: not dry and hard, heat resisting up to 120°C, good moisture absorption, pliable and tough and friction resisting
3. The product needs no water to keep wet. Its roller is not dry and hard but remains elastic. Moreover, its service life is five times than similar products and can increase the productivity by 6-8 M/min. The sponge is also chemical resistant (10% respectively for copper chlorine, nitric acid and hydrochloric acid).

PP sponge roller

1. Application: chemical liquid resistant roller inside etching trough
2. Characteristics: chemical liquid resistant (30% respectively for sodium hydroxide, hydrochloric acid and sulphuric acid, 20% for nitric acid).
3. The product is especially for chemical liquid resistant rollers in the etching section, which is to prevent erosion of the roller and the liquid deteriorating and flowing out.

Abrasive Brush



Quality criteria:

1. The outer diameter and inner hole of the roller has same axis
2. Outer diameter: $\leq 0.05\text{mm}$, inner hole $\leq 0.04\text{mm}$
3. The stretch resistance strength of brush needles $\geq 7.84\text{kg/cm}^2$
4. Service life: competent for 5000M metal board abrasive nylon yarn AL $\geq 1\text{mm}$

Size parameter

D(Outer diameter)	4"	4.5"	5"	5.5"	6"
L(Length)	24"	24"	24"	24"	24"

Specification can be made as your request.

Standard and use of brush needles (Unit: mm)

Length	diamete rΦ	Size of abrasive	Density of brush (root/cm ²)	Rough of surface	Application
12-15	0.8-1.0	180#	≥ 2500	≤ 2.5 ✓	To remove burrs
12-15	0.8-1.0	240#	≥ 2500	≤ 2.5 ✓	To remove burrs and polish
15-20	0.6-0.8	320#	≥ 3000	≤ 1.25 ✓	To clean and polish
15-20	0.5-0.7	500#	≥ 3000	≤ 0.32 ✓	To clean and polish
15-20	0.4-0.5	800#	≥ 3500	≤ 0.30 ✓	To solder and polish
15-20	0.4-0.5	1000#	≥ 3500	≤ 0.27 ✓	To solder and polish
20-25	0.2-0.3	Pure nylon yarn	≥ 4200		To wipe and clean lightly