



PURE LIFE

Manufacturing Filters & RO Systems

Industrial Filters



CMB

Melt-Blown PP Filter Cartridge



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Melt blown cartridge is formed by melting pure polypropylene with heat.

This type of cartridge filter is suitable for pre-filtration and it's usually used as a "security filter" before ultra filtration membrane.



CHARACTERISTICS

-The filter cartridge consists of three layers of heat-melted polypropylene. Compared to mono-layer filters, its life lasts much longer, therefore, the maintenance cost is reduced drastically.

- Using the light heating way for PP fibre, it can reduce the filtering resistance a lot and increase the water flow.

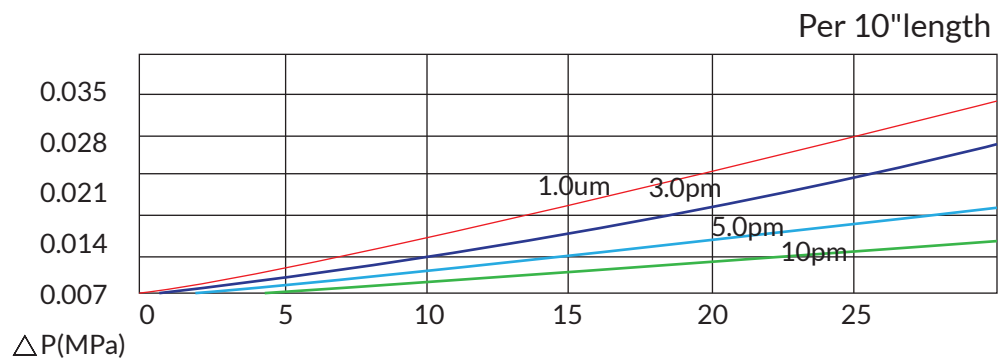
-As the filter cartridge is only made from polypropylene, it provides resistance to chemical reagents and organic solvents.

APPLICATIONS

- Filtering for plating solutions of electronic products, waste water, liquid medicine and pure water.
- Pre-filtering for various ultra filtration.
- Filtering water for medical purposes, and water treatment in chemical field.
- Filtering water used in the Food & beverage production.
- Pre-filtering before RO and UF, as long as various other treatment for industrial purposes.

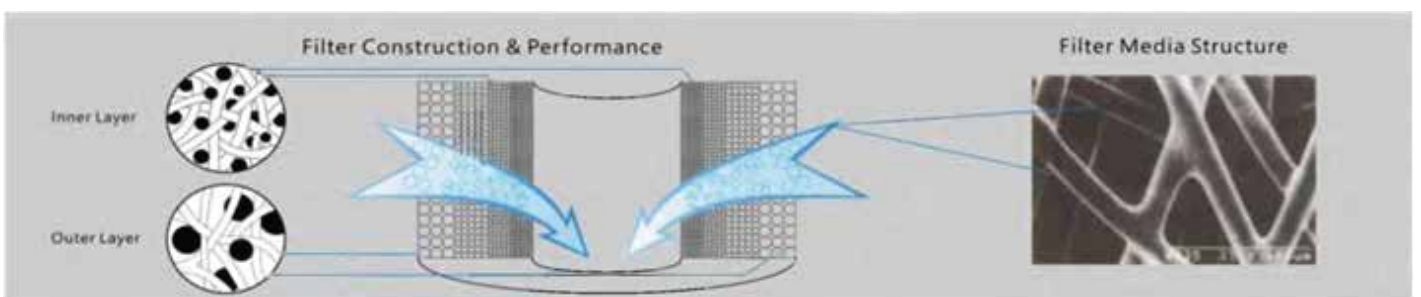


Item	Specification
Temperature	<60°C,(ΔP : 0.03MPa)
	<90°C,(ΔP : 0.02MPa)
Flow Rate	0.05-0.09 m ² per 10 inch
(60°C) AP(MAX)	0.1MPa/0.1MPa inpouring
	0.06MPa/0.06MPa outpouring
Hot-Water Sterilizing	70°C/30min
PH	1-13



PRODUCTS CODE TABLE

Item	Precision	Length	OD	ID	Inner Core	Surface	Code Eg.
CMB	01:1um	05:127±1.5mm	A:45mm	1:28mm	N:no core	F:flat	CMB -01-10M-25-1-N-F
	05:5um	10M:250±1.5mm	B:55mm	2:30mm	W:with core	O:orange	
	10:10um	10I:10"(254±1.5mm)	25:2.5"(63.5mm)	3:20mm		E:embossing	
	20:20um	20M:500±1.5mm	45:4.5"(115mm)			P:point	
	30:30um	20I:20"(508±1.5mm)					
	50:50um	30M:750±2mm					
		30I:30"(762±2mm)					
		40M:1000±2mm					
		40I:40"(1016±2mm)					
		50I:50"(1270mm)					
	70I:70"(1778mm)						





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PPW

PP Yarn Filter Cartridge

CHARACTERISTICS

PP String Wound filter cartridge consists of a core wound tightly with PP textile fibre in order to form filters that may vary in filtration precision, according the density of the string during winding. This type of filter can remove the suspended particles in liquids. Pure Life String Wound filters provide high quality depth filtration. It can also be manufactured by many types of material in order to meet different needs or types of liquids..



APPLICATIONS

- Food & beverage industry.
- Cosmetics industry.
- Pharmaceutical industry.
- Fishing industry.
- Processed water.
- Reverse Osmosis Pre-treatment
- Water-based solutions.
- Solar heating industry.
- Petrochemical industry .

PHYSICAL PROPERTIES

Filtering medium: Polypropylene

Core: Polypropylene, stainless steel

Filtering grades: 1, 5, 10, 25, 50 pm

Length (inches):10", 20", 30", 40", 50", 70"

External diameter: 60 mm

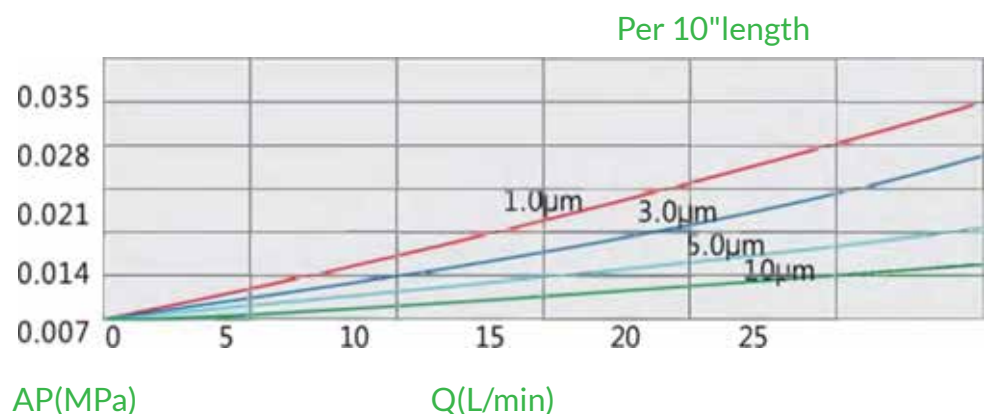
Internal diameter: 28 mm

Maximum operating temperature: 80°C

Differential pressure for replacement: 1.2 bar at 209C

Coupling: Double Open End

Packaging: Cardboard boxes on pallets



DEPTH FILTRATION

To achieve depth filtration Pure Life's filter media is thicker in depth with pores smaller, equal or greater than the particles that need to be retained. That way even particles that are smaller than the surface pores can be retained. Depth filtration is much better contrary to simple surface filtration. Media that offer surface filtration, have essentially smaller pores, than the particles they need to retain. That way particles are retained in the surface area of the filter and the media becomes more vulnerable to escaping of particles or breaking.



PRODUCTS CODE TABLE

Item	Material	Precision	Length	Inner Core Material	OD	ID	Code Eg.
PPW	P:PP line	01:1um	10M:250±1.5mm	P:PP	25:2.5"(63.5mm)	1:28mm	PPW-P-01-10M-P-25-1
	C:Cotton	05:5um	10I:10"(254±1.5mm)	S:304	45:4.5"(115mm)	2:30mm	
		10:10um	20M:500±1.5mm	T:316			
		20:20um	20I:20"(508±1.5mm)	F:Stainless iron			
		30:30um	30M:750±2mm				
		50:50um	30I:30"(762±2mm)				
		75:75um	40M:1000±2mm				
		1H:100um	40I:40"(1016±2mm)				
		1H:100um	50I:50"(1270mm)				
	1H:100um	70I:70"(1778mm)					



Pleated Filter

PP Pleated Filter Cartridge

MATERIAL AND CONSTRUCTION

- The filtering media is combined with ultra fibre membrane (belongs to depth filtration) and a guidance layer, which offers high resistance to pollutants.

The end caps, outer shell and inner core are all made of pure polypropylene.

- Pleated layers can enlarge the permitted concentration of pollutants, increase the water flow and expand the filter's life. All the parts are sealed into a complete unit via sweating soldering without any adhesive.

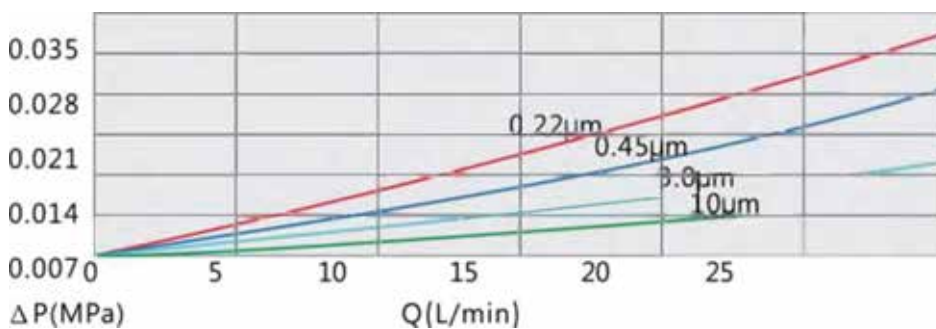


APPLICATIONS

- Electronic industry: Pre-filtering ultrapure water.
- Food & beverage industry: Filtering mineral water, liquor, juice, etc.
- Medical industry: Filtering liquid medicine, gas, etc.
- Chemical industry: Filtering organic solvents.
- Oil industry: Filtering oil-field effusion.



Per 10" Length



Item	Specification
Temperature	<60°C, (Δp : 0.03MPa)
	<90°C, (ΔP : 0.02MPa)
Flow Rate	0.3T/H • 10"
(60°C)	0.1 MPa/0.1 MPa inpouring
Δp (MAX)	0.06MPa/0.06MPa outpouring
Steam Sterilizing	121°C/30min





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PRODUCTS CODE TABLE

Item	Precision	Adaptor	O-ring	Length	Material	Code Eg.
TPP	02:0.2um	0:2-222	S:Silicon	1:10"	PV:PP	TPP-02-0-S-1-PV
	04:0.45um	7:2-226	E:EPDM	2:20"	TV:PTFE	
	10:1um	F:Double	V:Viton	3:30"	UV:PESU	
	50:5um	O:Open end		4:40"		
	1H:10um					
	2H:20um					

Article Number	Accuracy				Effective Filter Area (250mm:IPCS)
	Rejection Rate	100%	99.9%	99%	
	Accuracy	-	6=1000	6=100	
TPP-002	0.22 UM	0.5	0.2	0.15	0.65
TPP-004	0.45 UM	0.7	0.45	0.3	0.65
TPP-010	1 UM	2.8	1	0.9	0.64
TPP-030	3 UM	5.4	3	2.8	0.59
TPP-050	5 UM	7.6	5	4.5	0.56
TPP-100	10 UM	13.9	10	9.1	0.63

Pleated Filter

Pleated Cartridge Filter

FEATURES & BENEFITS:

- Designed for oilfield fluids and desalination
- One piece rigid outer cage and outer netting are available
- Broad chemical compatibility
- High flow rate, low pressure drop, excellent contaminant loading capacity
- Standard to fit different brands



Material

Filtration Media:	Glass Fiber / Polypropylene
Inner core:	polypropylene
Outer cage or outer netting:	polypropylene
End Caps:	ABS

Operation Conditions

Max. Temperature:	~80°C
Recommended Flow Rate:	10m ³ /40inch
Recommended differential pressure for change-out:	2.1-2.4bar

Dimensions

Length:	40inch / 30inch
Outer diameter:	2.5inch
Inner diameter:	1.1 Inch
Connection:	222/Flat or others
Filtration Media:	12 m ³ / 40 inch

Applications

Well completion fluids.	Process water.
Work over fluids	Gravel pack fluids.
Injection water.	Amine.
Produced water.	Desalination.

Ordering Information:

Model	Length	Pleated Media	Outer Material	Micron Rating	O-ring	End Caps
PPFC Series Pleated Cartridge Filter				1=1um		
	40=40inch	GF=Glass Fiber	EN= Netting	3=3um	E=EPDM	
		PP=polypropylene	RC=Rigid Cage	5=5um	V=Viton	2=222Flat
				10=10um	B=Buna N	O=others
				20=20um	S=Silicone	
				50=50um	O=others	

High Flow Pleated

High Flow Pleated Filter Cartridge

High Flow Pleated Filter is a large diameter , coreless, single open end , pleated cartridge filter with an inside-to-outside flow pattern . Its optimized pleats structure design with its large 152 mm (6 inch) diameter increases effectively the filtration area , allowing you to use significantly fewer filters and smaller housings for all high and large flow rate applications.



FEATURES AND BENEFITS

- 6 " diameter , large geometry for high flow capacity.
- Depth pleated structure, combined with multiple media, providing large dirt holding capacity and absolute or nominal micron rate .
- Larger surface filtration area per cartridge.
Provides higher flow rate , lower pressure drop and longer service life.
Thereby reducing labor and disposal cost.
- Suitable for high flow rate liquid filtration.
Possible applications: Cooling Water Filtration , RO Pre-Filtration, Seawater Desalination, Amine Circulation Filtration and all kinds of chemical solution filtration.
- Absolute-rated filter medium for reproducible performance.
- Coreless and full plastic construction to minimize waste disposal.
- Inside-out flow pattern design allows for excellent dirt holding capacity.
- Ergonomically designed handle .
Facilitates fast and easy cartridge change-out without use of special tools
Available in a variety of filter lengths and grades

TYPICAL APPLICATIONS

- Power Condensate System
- Municipal Water
- Electronics (RO Pre-Filtration, Process Water)
- Chemical
- Petrochemicals



CTO

Activated Carbon Filter Cartridge

CHARACTERISTICS

Activated carbon is a porous material, which has the ability to absorb organic compounds. Therefore, it is widely used in as a tool for decoloration, deodorization and deoil, in order to absorb those unwanted contamination particles in filtered liquids. Adsorbability depends on the filter method, water flow rate, contact time, contact area with active carbon, etc.

Taking all these facts into consideration our filters are well designed to offer efficiency and improve the filtration quality that the medium offers.

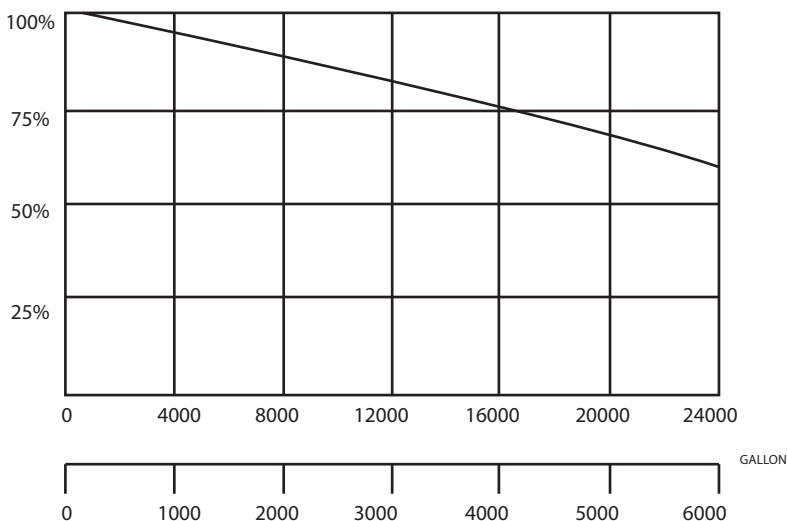
APPLICATIONS

- For water for medical industry.
- For surfwee preparation, electroplating solution.
- To get rid of the oil and aromatics in liquids.
- To get rid of the free chlorine and VOC in liquids.
- To get rid of odours, sediments or organic pigments in liquids.
- To get rid of organic chemicals.



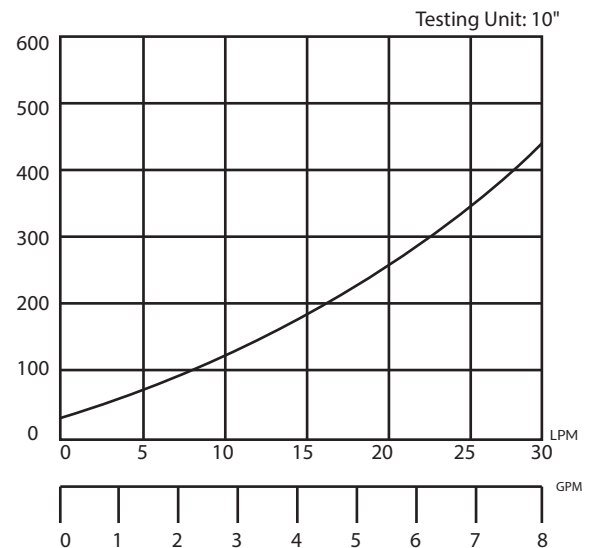
Free Chlorine Removal Chart

Flow Rate:1 GPM & Concentration:2PPM per 10"



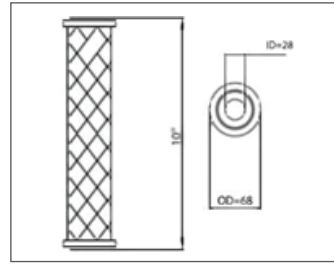
Flow Rate and Differential Pressure Chart

Pure Water Flow at 20°C (LPM/GPM)



Filtration Efficiency Value

Specific Surface Area: m ² /g	850
Adsorptive Value of Benzene: mg/g	270
Adsorptive Value of Iodine: mg/g	800
Decolor Value of Methylene Blue: mg/g	100
Thickness: mm	2



Structure and Material

Activated Carbon Type	Coconut Shell Based Activated Carbon
	Polyester
Inner Core	Polypropylene
Coating Layer of Inner Core	Polyester
Outer Carrier Net	Polyethylene
Endcap	PPR (Food Grade)



Design and Operating Parameters

Pore Size	5UM
Maximum Operating Temperature	52°C (125 F)
Maximum Differential Pressure	3.45Bar(50 psid)
Recommended Change-out Differential Pressure	2.07Bar(30 psid)
Breaking-out Differential Pressure	5.17Bar(75 psid)

Products Code Table

Item	Material	Length	OD	Code Eg.
CTO	C:Activated Carbon Fiber	10M:250±1.5mm	25:2.5"(63.5mm)	CTO-P-01-10M-P-25-1
		10l:10"(254± 1.5mm)	45:4.5"(115mm)	
		20M:500±1.5mm		
		20l:20"(508±1.5mm)		