



# ***Filtteck***

## **Company Profile**

FILTECK CO., LTD.





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## Company introduction

Filteck Co., Ltd. is the leading filter company in Taiwan that dedicates itself particularly to research and development of filter industry since 1998.

Our automatic production capacity reaches the largest output 1,400,000 pieces of 10 inch melt-blown depth filter & 30,000 pieces of 10 inch pleated filter per month.

## OEM-Equivalent Filter Cartridges

We can cross-reference most major brand in the market, offering equivalent OEM's products. Filteck could offer various length you need and ship within 15 days.

At Filteck, we have experience and expertise to develop products to provide our clients with superior quality and competitive price.





## Pleated Filter with Microfiber media

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### ● High Flow Melt Blown Filter

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- 35 ► Max-Flow Pleated Filter Cartridge with PP Microfiber media

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### ● Oil Removal Filter Bag

- 40 ► MBP Oil Removal Filter Bag
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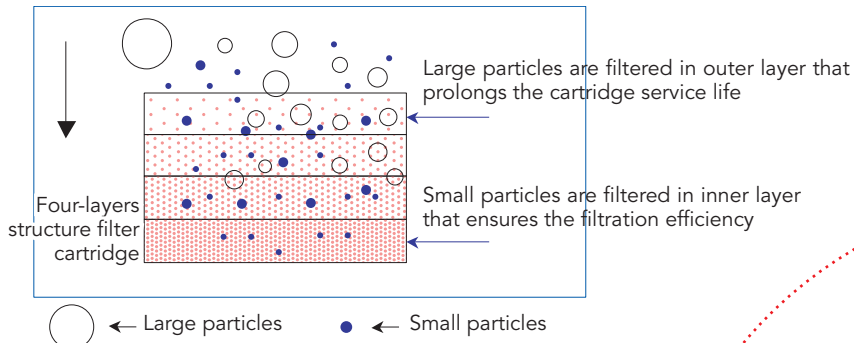


# Flow-Pure Depth Filter Cartridge

The Flow-Pure depth filter cartridge was manufactured by four different pore diameter of spray nozzle which is according to the patent of Filteck "the multi-layers production". The four-layers structure PP depth cartridge is functioned with fine fibers in inner layer and coarse fibers in outer layer which constitutes four different pore diameters in order to filtrate particles in different layers. This design has high contaminant holding capacity, which also ensures a longer service life and lower pressure drop.

## ► Features & Benefits

- Four-layers structure cartridge, high contaminant holding capacity, long filter service life.
- 100% PP for compatibility with a wide range of process fluids.
- Micro-Denier melt-blown filtration fiber, high removal ratings.
- Formed by thermal bond without use of any binders and adhesives
- Certified by NSF42 and FDA CFR Title 21.
- In compliance with the latest EC Directive for food contact.



## ► Operation conditions

- Maximum operating forward pressure:  
60°C: 1.8 kg/cm<sup>2</sup>  
20°C: 3.2 kg/cm<sup>2</sup>

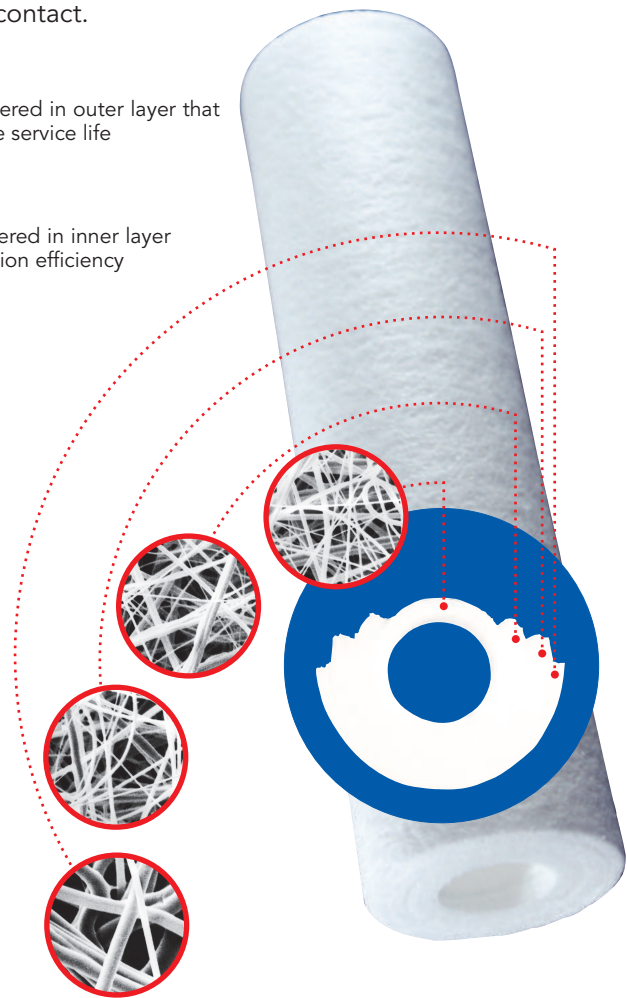
## ► Applications of product

- Recommended replacement pressure drop: 1.5 kg/cm<sup>2</sup>
- Maximum operating temperature: 60°C

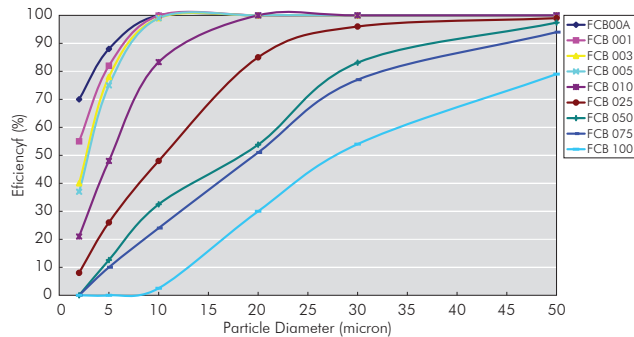
## ► Product specifications

- Filtration of etching and image development process solutions in PCB industry.
- Filtration of electroplating fluids in conventional electroplating industry.
- Pre-filtration of DI & RO water filtration system for industry usage.
- Filtration of low viscosity chemical fluids.
- Filtration of process water and recycled water.

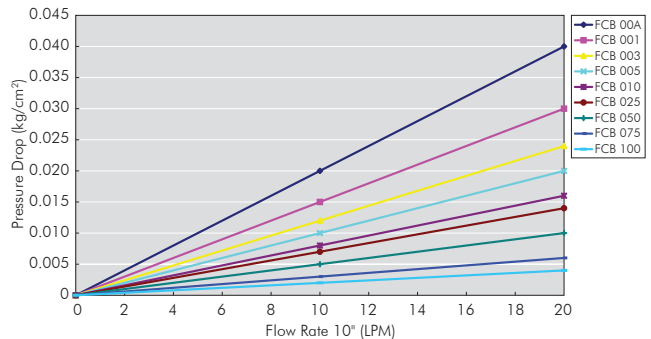
Micron ratings: nominal 0.5, 1, 3, 5, 10, 25, 50, 75, 100 Micron
Material of construction: 100% melt-blown micron-denier PP fiber
Length: 9.87", 10", 20", 30", 40" (251mm, 254mm, 508mm, 762mm, 1016mm)
Inner diameter: 28mm
Outer diameter: 63mm



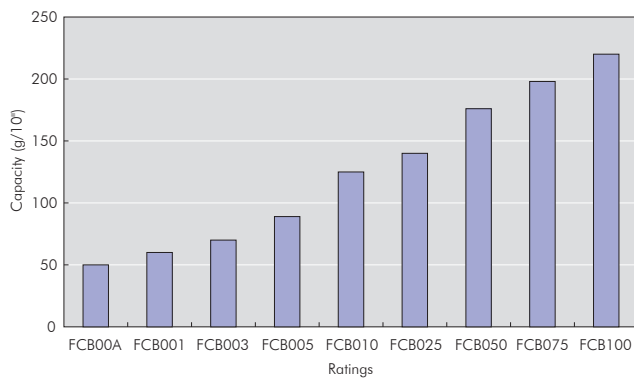
### Efficiency of Filtration



### Initial Pressure Drop



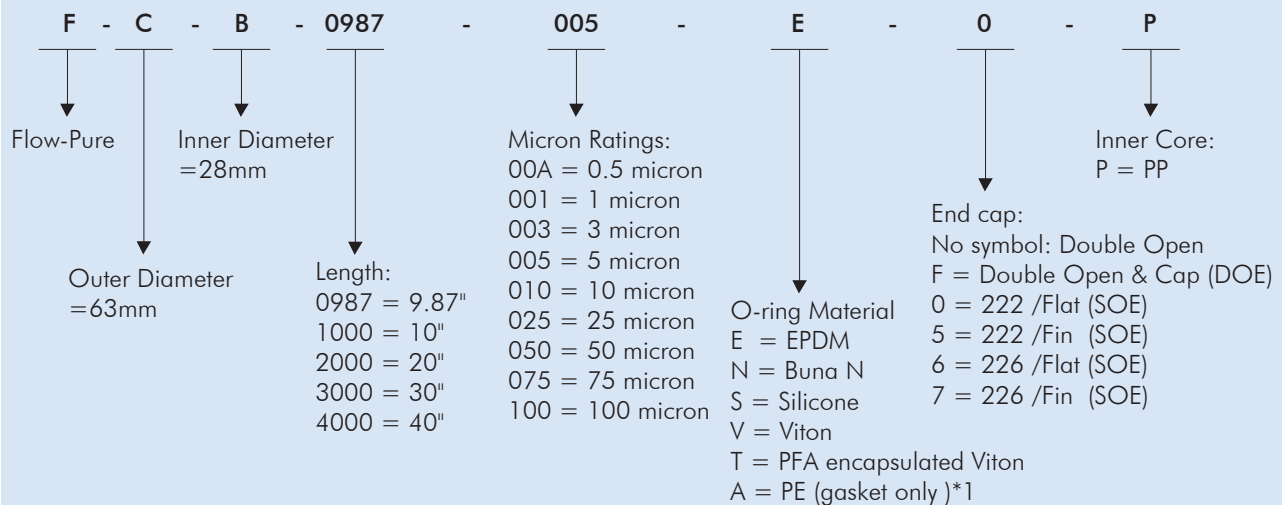
### Capacity of Dust



### Suggested equivalent products

- Pall Poly-Matrix
- GE Osmonics Purtrex
- Pentair P series

## Ordering Information



\*1: PE gasket with Max. temperature 60°C

# Super-Pure Depth Filter Cartridge

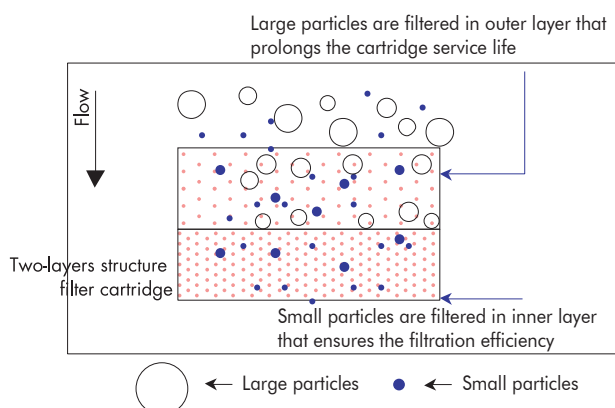
The Super-Pure depth filter cartridge is two-layers structure cartridge with fine fibers in inner layer and coarse fiber in outer layer in order to filtrate different diameter of dust in different layer. This design has high contaminant holding capacity, which also ensures a longer Service life and lower pressure drop.

## ► Features & Benefits

- Two-layers structure cartridge, high contaminant holding capacity, long filter service life.
- 100% PP for compatibility with a wide range of process fluids.
- Micro - denier melt-blown filtration fiber, high removal ratings.
- Formed by thermal bond without use of any binders and adhesives.
- Certificated by NSF42 and FDA CFR Title 21.
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:  
80°C: 1.2 kg/cm<sup>2</sup>  
60°C: 2.1 kg/cm<sup>2</sup>  
20°C: 4.2 kg/cm<sup>2</sup>
- Recommended replacement pressure drop:  
2.1 kg/cm<sup>2</sup>
- Maximum operating temperature: 80°C

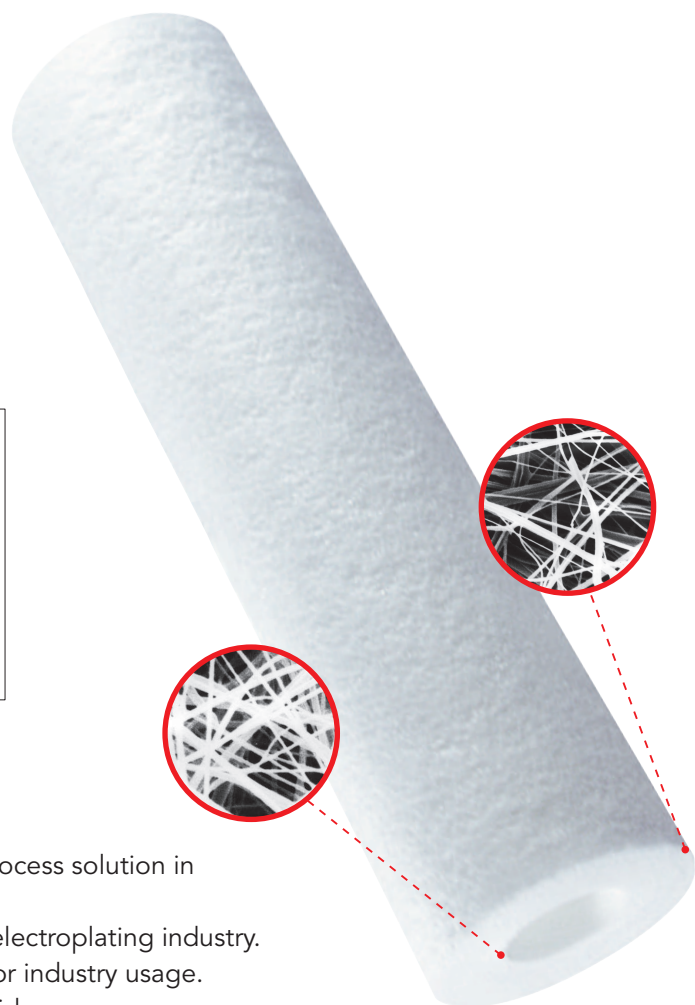


## ► Applications of product

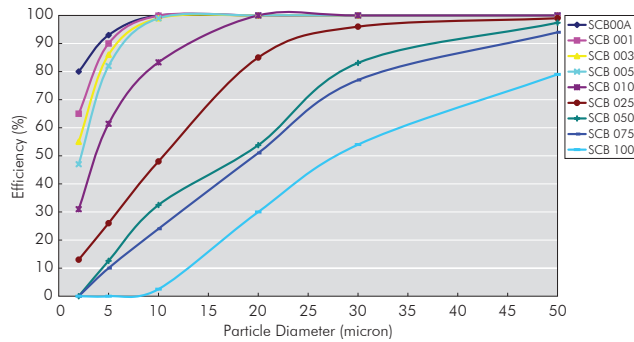
- Filtration of etching, and image development process solution in PCB industry.
- Filtration of electroplating fluid in conventional electroplating industry.
- Pre-filtration of DI & RO water filtration system for industry usage.
- Filtration of medium & low viscosity chemical fluids.
- Filtration of process water and recycled water.

## ► Product specifications

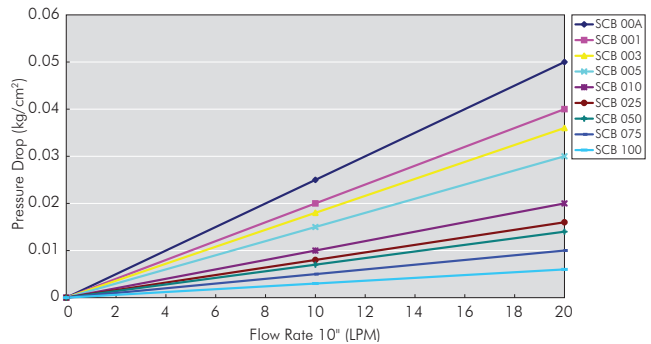
Micron ratings: nominal 0.5, 1, 3, 5, 10, 25, 50, 75, 100 micron
Material of construction: 100% melt-blown micro-denier PP fiber
Length: 9.87", 10", 20", 30", 40" (251mm, 254mm, 508mm, 762mm, 1016mm)
Inner diameter: 28mm
Outer diameter: 63mm



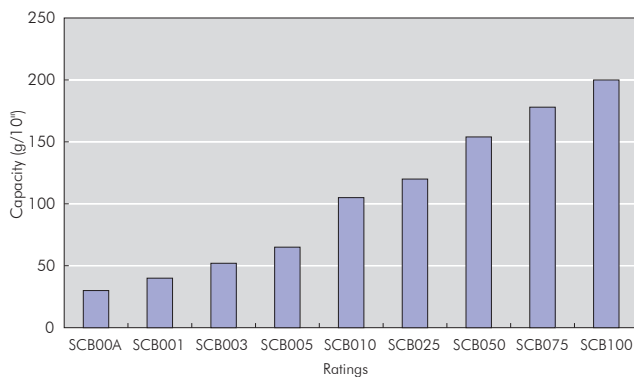
### Efficiency of Filtration



### Initial Pressure Drop



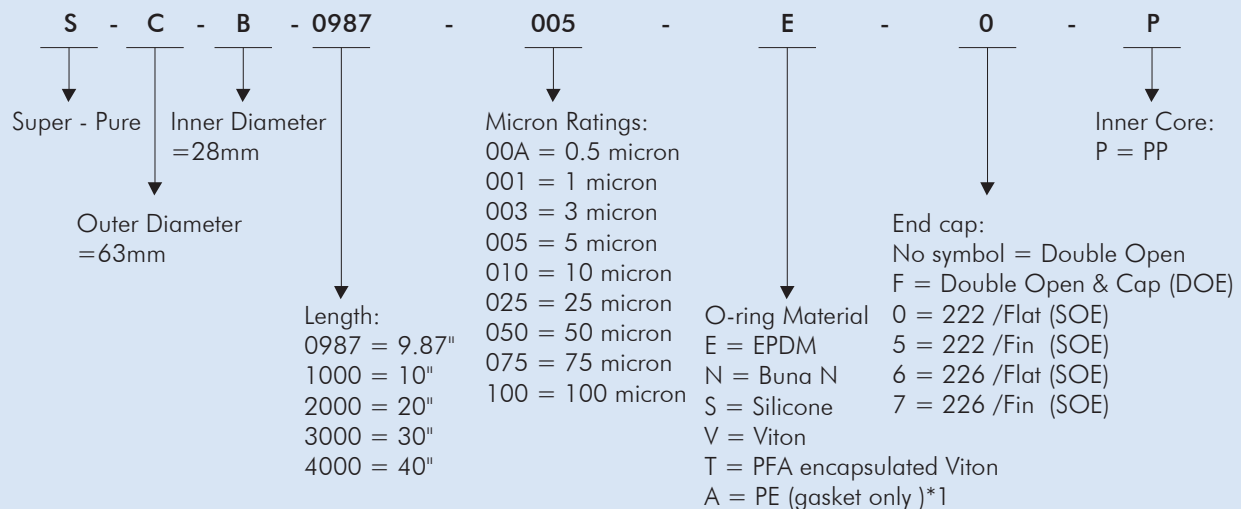
### Capacity of Dust



### Suggested equivalent products

- Pall Claris
- GE Osmonics Hytex

## Ordering Information



\*1: PE gasket with Max. temperature 60°C

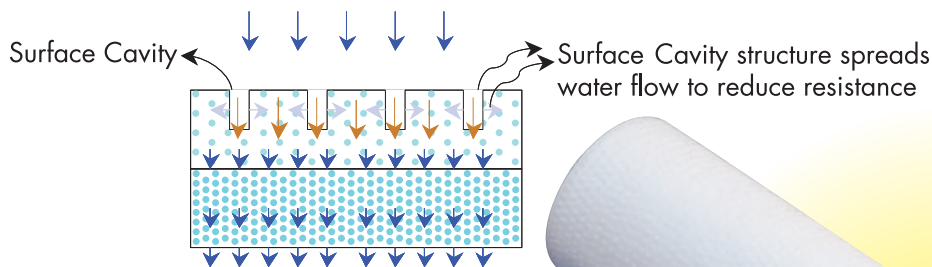
# Super-Plus Depth Filter Cartridge with Surface Cavity

The Super-Plus depth filter cartridge was designed, to meet the market requirements for a pure polypropylene depth filter with exceptional dirt-holding capability and performance. The surface cavity structure provides a longer service life, low pressure drop and high efficiency which offers an exceptional value for industry applications.

## ► Features & Benefits

- 100% PP for compatibility with a wide range of process fluids.
- Micro - denier melt blown filtration fiber, high removal ratings.
- Absolute ratings from 1 to 100 micron.
- Surface pore structure spreads water flow to reduce pressure drop.
- Continuously gradient pore structure increases the capacity of dust.
- Surface fiber fortified to prevent fiber releasing.
- High strength and pressure resistance.
- Formed by thermal bond without use of any binders and adhesives.
- Certificated by NSF42 and FDA CFR Title 21.
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions



- Maximum operating forward pressure:  
80°C: 1.2 kg/cm<sup>2</sup>  
60°C: 2.1 kg/cm<sup>2</sup>  
20°C: 4.2 kg/cm<sup>2</sup>
- Recommended replacement pressure drop:  
2.1 kg/cm<sup>2</sup>
- Maximum operating temperature:  
80°C

## ► Product specifications

Micron Ratings: Absolute 1, 3, 5, 10, 25, 50, 75, 100 micron
Material of construction: 100% melt-blown micro-denier PP fiber
Length: 9.87", 10", 20", 30", 40" (251mm, 254mm, 508mm, 762mm, 1016mm)
Inner diameter: 28mm
Outer diameter: 63mm



### Efficiency of Filtration

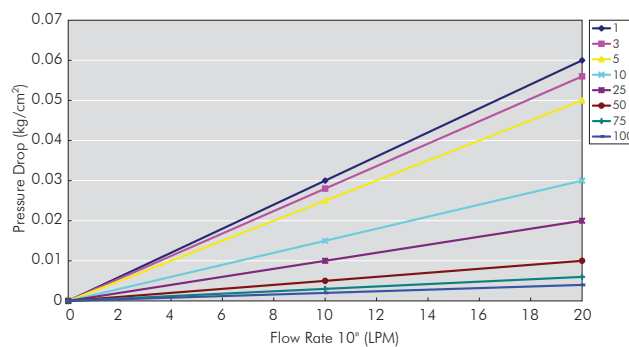
spec.	Retention Efficiency (%)							
	1µm	3µm	5µm	10µm	25µm	50µm	75µm	100µm
SP001	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
SP003	89.3	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
SP005	75.9	91.2	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
SP010	----	63.8	87.3	>99.9	>99.9	>99.9	>99.9	>99.9
SP025	----	----	69.9	92.8	>99.9	>99.9	>99.9	>99.9
SP050	----	----	----	58.1	74.9	>99.9	>99.9	>99.9
SP075	----	----	----	----	63.9	90.5	>99.9	>99.9
SP100	----	----	----	----	60.1	87.4	92.8	>99.9

\* Multi-pass Test

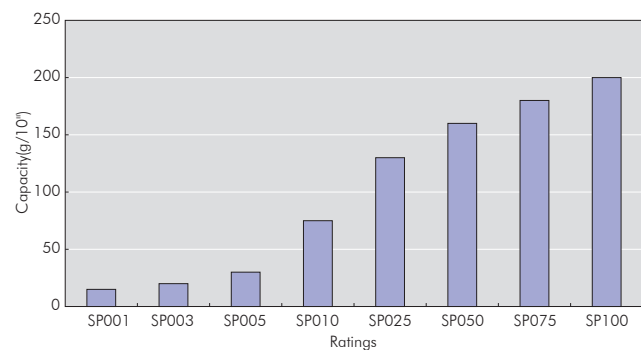
### Suggested equivalent products

- Pall
  - Chisso
  - 3M
  - 3M
  - Pentair
  - Daiwabo
- Nexis
  - CP
  - Deltaklean
  - Betapure
  - Polydepth
  - SEKISO

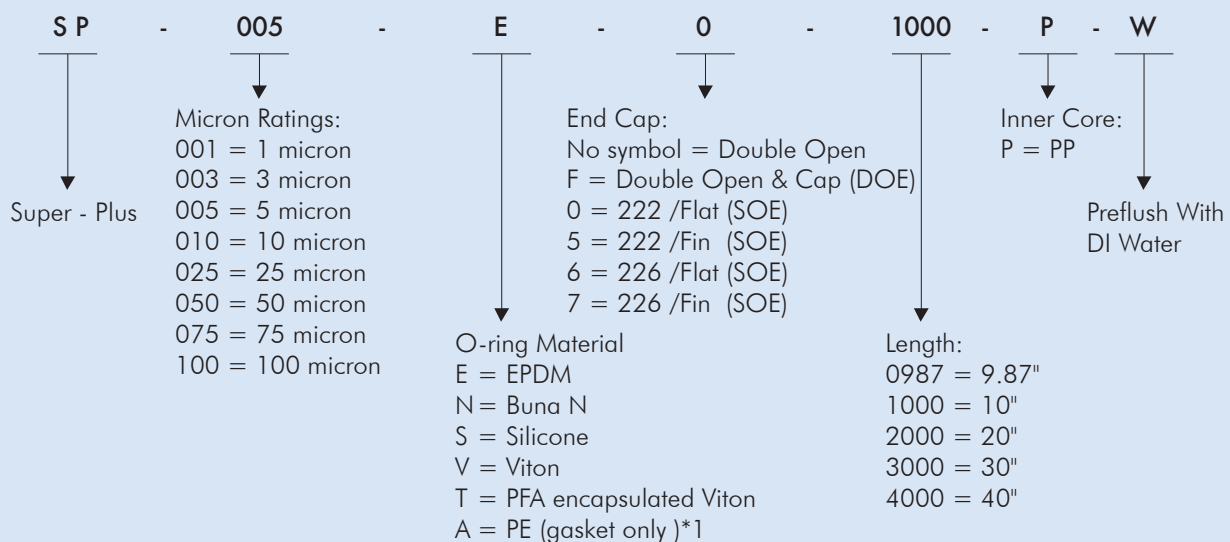
### Initial Pressure Drop



### Capacity of Dust



## Ordering Information



\*1: PE gasket with Max. temperature 60°C

# Super-Micron Depth Filter Cartridge

The Super-Micron depth filter cartridge is two-layers structure cartridge with fine fibers in inner layer and coarse fiber in outer layer in order to filtrate different diameter of dust in different layer. This design has high contaminant holding capacity, which also ensures a longer service life and lower pressure drop.

## ► Features & Benefits

- Two-layers structure cartridge, high contaminant holding capacity, long filter service life.
- 100% PP for compatibility with a wide range of process fluids.
- Micro-denier melt-blown filtration fiber, high removal ratings.
- Formed by thermal bond without use of any binders and adhesives.
- Certificated by NSF42 and FDA CRF Title 21.
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:  
80°C: 1.2 kg/cm<sup>2</sup>  
60°C: 2.1 kg/cm<sup>2</sup>  
20°C: 4.2 kg/cm<sup>2</sup>
- Recommended replacement pressure drop:  
2.1 kg/cm<sup>2</sup>
- Maximum operating temperature: 80°C

## ► Applications of product

- Filtration of cooling water system in semiconductor industry (PCW).
- Filtration of CMP Slurries.
- Pre-filtration of DI water filtration.
- Filtration of medium & low viscosity chemical fluids.
- Filtration of process water and recycled water.
- Filtration of paint in panel painting industry usage.

## ► Product specifications

Micron ratings: nominal 0.5 micron, absolute 1,3,5 micron

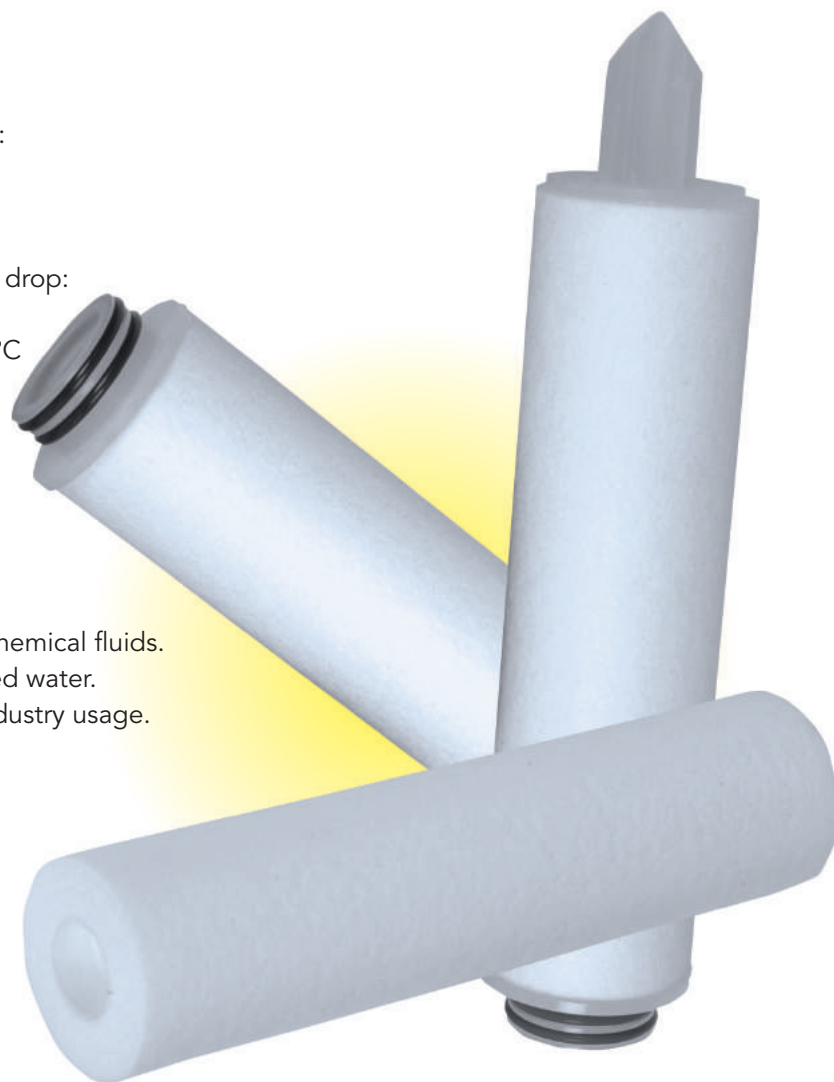
Material of construction: 100% melt-blown micro-denier PP fiber

Length: 9.87", 10", 20", 30", 40"

(251 mm, 254 mm, 508 mm, 762 mm, 1016 mm)

Inner diameter: 28 mm

Outer diameter: 63 mm

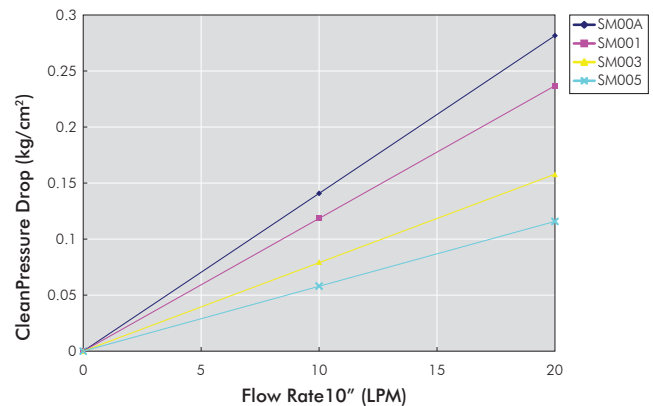


### Retention vs. Particle Size

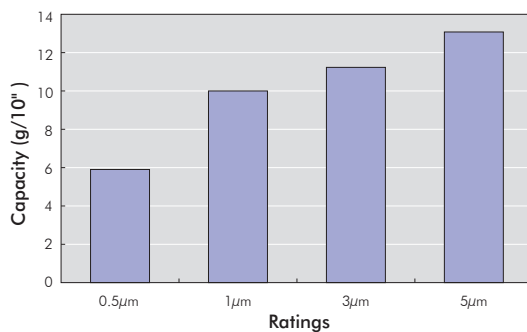
spec.	2 micron	3 micron	5 micron	10 micron
SM00A	>99.9	>99.9	>99.9	>99.9
SM001	99.5	>99.9	>99.9	>99.9
SM003	97.3	>99.9	>99.9	>99.9
SM005	95.2	97.1	>99.9	>99.9

\*ISO 12103-1, A3 Medium Test Dust, Multi - Pass Test

### Initial Pressure Drop



### Capacity of Dust



### Suggested equivalent products

- Pall Profile II
- Pall Nexis® A

## Ordering Information

SM	-	0987	-	005	-	E	-	0	-	P
↓		↓		↓		↓		↓		↓
Super-Micron		Length: 0987 = 9.87" 1000 = 10" 2000 = 20" 3000 = 30" 4000 = 40"		Micron Ratings: 00A = 0.5 micron 001 = 1 micron 003 = 3 micron 005 = 5 micron		O-ring Material E = EPDM N = Buna N S = Silicone V = Viton T = PFA encapsulated Viton A = PE (gasket only)*1		End cap: No symbol: Double Open F = Double Open & Cap (DOE) 0 = 222 /Flat (SOE) 5 = 222 /Fin (SOE) 6 = 226 /Flat (SOE) 7 = 226 /Fin (SOE)		Inner Core: P = PP

\*1: PE gasket with Max. temperature 60°C



# Super-Nylon Depth Filter Cartridge

The Super-Nylon melt blown depth filter cartridges are designed for those applications which polypropylene filters cannot be used. Super-Nylon filter cartridges are suitable for high temperature applications as well as applications involving solvents, hydrocarbons and aromatics. Other features include integral moulded centre core and a full range of thermal welded end caps to ensure maximum compatibility with existing installations.

## ► Features & Benefits

- Micro-denier melt-blown Nylon fiber, high removal ratings and low pressure drop.
- Range of filtration ratings from 1 to 100.
- Graded density structure for maximum dirt holding capacity
- Rated for temperature up to 120°C.
- Excellent chemical compatibility with solvents, hydrocarbons & aromatics.
- High void volume, resulting in low differential pressure and excellent dirt holding capacity.
- No resins, binders or anti static agents to ensure minimal extractables.
- Formed by thermal bond without use of any binders and adhesives.
- In compliance with the latest EC Directive for food contact.
- Certificated by FDA CFR Title 21.

## ► Operating Conditions

- Maximum operating forward pressure:  
(not including Nylon core)  
1 ~ 25 micron      2.5 kg/cm<sup>2</sup>  
50 ~ 100 micron    1.0 kg/cm<sup>2</sup>
- Maximum operating temperature:  
120°C

## ► Applications of products

Super-Nylon depth filter cartridges are particularly suitable for the petrochemical and fine chemical industries, because of its high temperature rating compatibility of solvents and hydrocarbons which makes it ideally for many applications.

## ► Product specifications

Micron ratings: 1, 5, 10, 25, 50, 75, 100 micron
Material of construction: Melt-blown micro-denier Nylon fiber
Core & Endcap Material: Nylon
Length: 9.87", 10", 20", 30", 40" (251 mm, 254 mm, 508 mm, 762 mm, 1016 mm)
Inner diameter: 28 mm
Outer diameter: 63 mm



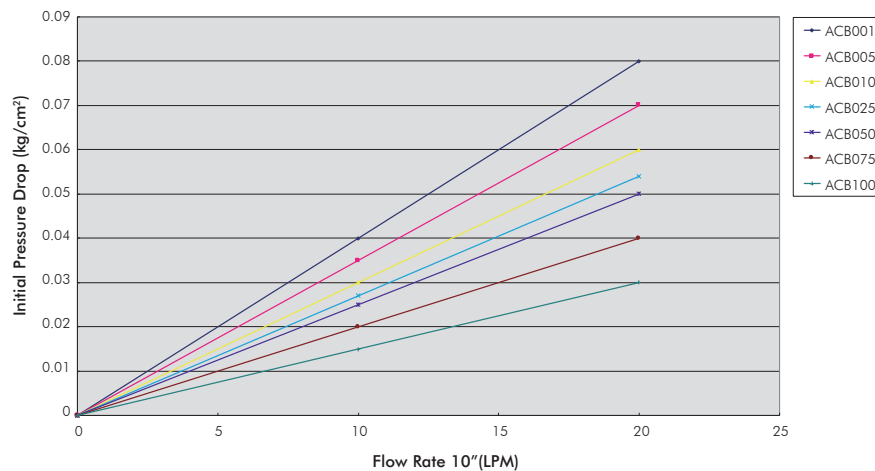
### Efficiency of Filtration

spec.	Initial Efficiency of Filtration	
ACB001	2 micron	> 90%
ACB005	5 micron	> 90%
ACB010	10 micron	> 90%
ACB025	25 micron	> 90%
ACB050	50 micron	> 90%
ACB075	75 micron	> 90%
ACB100	100 micron	> 90%

### Suggested equivalent products

- Pall
- Amazon filters
- Nexis N
- SupaSpun NN

### Initial Pressure Drop



## Ordering Information

<b>A</b>	<b>-</b>	<b>C</b>	<b>-</b>	<b>B</b>	<b>-</b>	<b>0987</b>	<b>-</b>	<b>005</b>	<b>-</b>	<b>E</b>	<b>-</b>	<b>O</b>	<b>-</b>	<b>P</b>
↓		↓		↓		↓		↓		↓		↓		↓
Super-Nylon				Inner Diameter = 28mm		Length: 0987 = 9.87"		Micron Ratings: 001 = 1 micron 005 = 5 micron 010 = 10 micron 025 = 25 micron 050 = 50 micron 075 = 75 micron 100 = 100 micron		End Cap: No symbol = Double Open F = Double open & Cap (DOE) 0 = 222 /Flat (SOE) 5 = 222 /Fin (SOE) 6 = 226 /Flat (SOE) 7 = 226 /Fin (SOE)				Inner Core: P = Nylon core
		Outer Diameter = 63mm				1000 = 10" 2000 = 20" 3000 = 30" 4000 = 40"				O-ring Material: E = EPDM N = Buna N S = Silicone V = Viton T = PFA encapsulated viton A = PE (gasket only)*1				

\*1: PE gasket with Max. temperature 60°C

# Super-PBT(Polyester) Depth Filter Cartridge

The Super-PBT is the (Polyester type) melt bonded depth filter cartridge for use in applications where petroleum oils and acid solution and/or high temperature rule out the use of polypropylene. In addition, it has the benefits , such as true gradient depth filtration, extremely low pressure losses, high removal ratings and high void volumes, all of which go to make the Super-PBT product of choice for many major filter users.

## ► Features & Benefits

- Graded density structure for maximum dirt holding capacity.
- Rated for temperatures up to 120 °C.
- Excellent chemical compatibility with petroleum oils & acid solution.
- High void volume, resulting in low differential pressure and excellent dirt holding capacity.
- No resins, binders or anti static agents to ensure minimal extractables.
- Formed by thermal bond without use of any binders and adhesives.
- In compliance with the latest EC Directive for food contact.
- Certificated by FDA CFR Title 21.

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## ► Operation Conditions

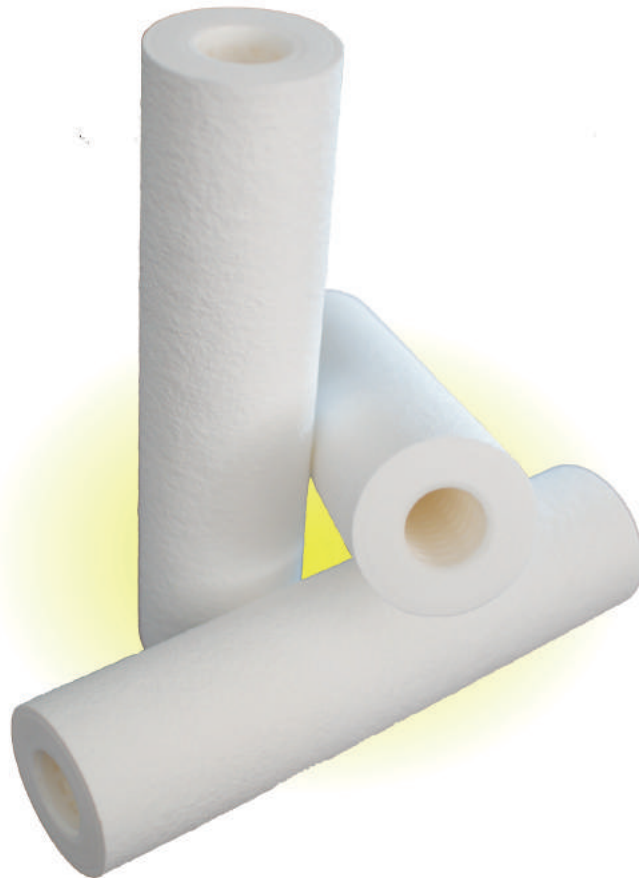
- Maximum operating forward pressure:  
20°C: 4.2kg/cm<sup>2</sup>
- Maximum operating temperature:  
120°C

## ► Applications of products

- Filtration of edible and petroleum oils
- Filtration of acid solution
- Paint coatings
- Food & Beverage

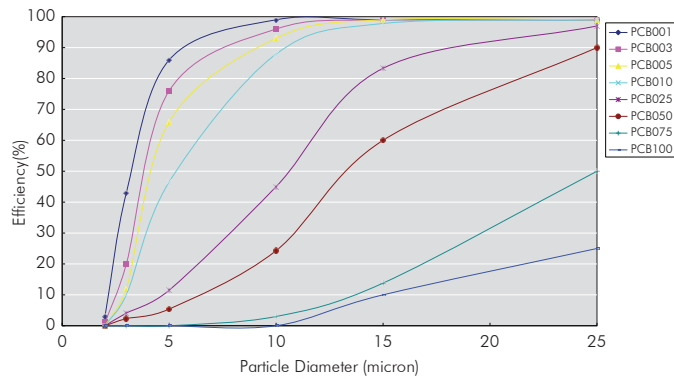
## ► Product specifications

Micron ratings: nominal 1, 3, 5, 10, 25, 50, 75, 100 micron
Material of Construction: Melt-blown micro-denier PBT fiber
Core & End cap Material: PBT
Length: 9.87", 10", 20", 30", 40" (251 mm,254 mm,508 mm,762 mm,1016 mm)
Inner Diameter: 28 mm
Outer Diameter: 63 mm





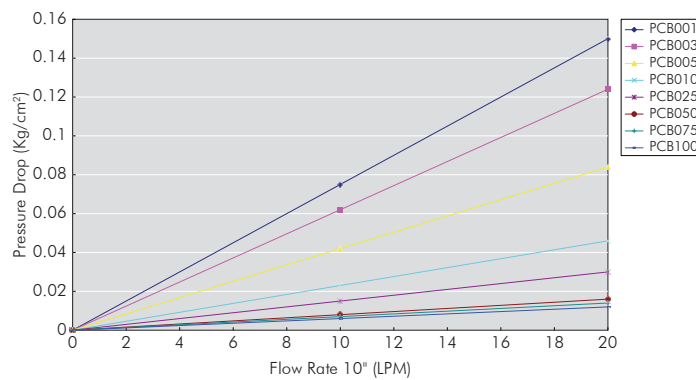
### Efficiency of Filtration



### Suggested equivalent products

- 3M Micro-klean
- Parker Fulflo® ProBond™
- Pall Hi-V

### Initial Pressure Drop



## Ordering Information

<b>P</b>	-	<b>C</b>	-	<b>B</b>	-	<b>0987</b>	-	<b>005</b>	-	<b>E</b>	-	<b>0</b>	-	<b>P</b>
Super - PBT		Inner Diameter = 28mm				Length:		Micron Ratings:		O-ring Material		End cap:		Inner Core:
		Outer Diameter = 63mm				0987 = 9.87"		001 = 1 micron		E = EPDM		No symbol = Double Open		P = PBT core
						1000 = 10"		003 = 3 micron		N = Buna N		F = Double Open & Cap		
						2000 = 20"		005 = 5 micron		S = Silicone		0 = 222 /Flat (SOE)		
						3000 = 30"		010 = 10 micron		V = Viton		5 = 222 /Fin (SOE)		
						4000 = 40"		025 = 25 micron		T = PFA encapsulate with Viton		6 = 226 /Flat (SOE)		
								050 = 50 micron		A = PE (gasket only)*1		7 = 226 /Fin (SOE)		
								075 = 75 micron						
								100 = 100 micron						

\*1: PE gasket with Max. temperature 60°C

# Alpha-Pure Depth Filter Cartridge

The Alpha-Pure depth filter cartridge is using an exclusive process to create a rigid construction of filtering, each contact point of the fibers is thermally bonded to form a network structure that allows for longer service life and higher throughputs. Moreover, Alpha-Pure stands out for its ability of providing stable filtration of high viscous liquids and increases the contaminant holding capacity under low differential pressure without the structure deformation.

## ► Features & Benefits

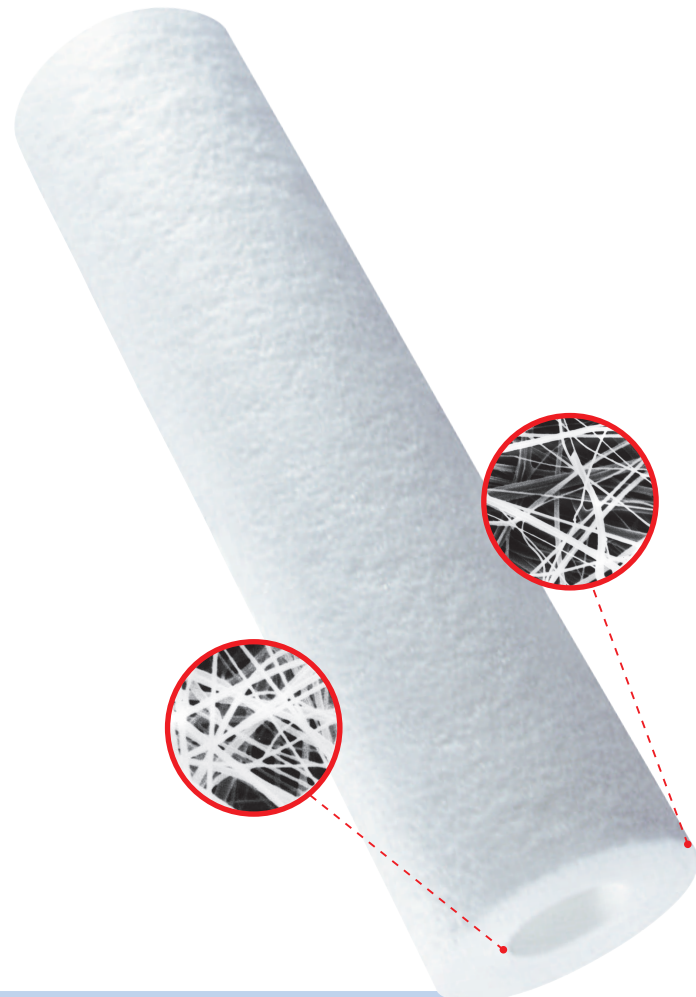
- Multi-layers structure cartridge, high contaminant holding capacity, long filter service life.
- 100% PP for compatibility with a wide range of process fluids
- Micro-denier fiber provide rigid construction and longer cartridge life-time.
- Formed by thermal bond without use of any binders and adhesives.
- Certificated by NSF42 and FDA CFR Title 21.
- In compliance with the latest EC Directive for food contact.

## ► Operation Conditions

- Maximum differential forward pressure:  
20°C: 4.9kg/cm<sup>2</sup>
- Recommended replaceable pressure drop:  
2.46kg/cm<sup>2</sup>
- Maximum operating temperature: 80°C

## ► Applications of products

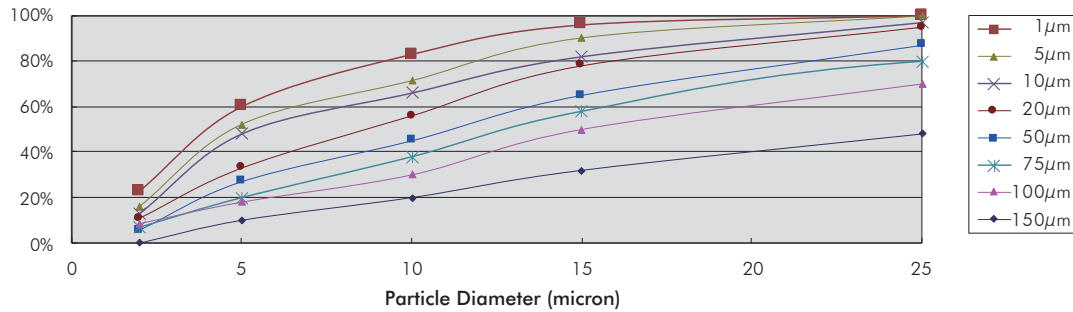
- High viscosity fluid.
- Painting.



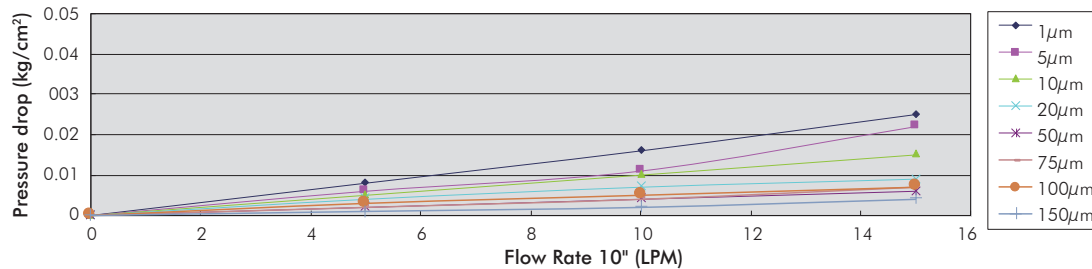
## ► Product specifications

Micron ratings: Nominal 1, 5, 10, 20, 50, 75, 100, 150 micron
Material of construction: 100% melt-blown micro-denier PP
Length: 9.87", 10", 20", 30", 40" (251 mm, 254 mm, 508 mm, 762 mm, 1016 mm)
Inner diameter: 28mm with PP inner core
Outer diameter: 65mm

### Efficiency of Filtration



### Capacity of Dust



### Suggested equivalent products

- 3M Betapure™
- Daiwabo SEKISO-S
- JNC CP Filter

### Ordering Information

R	M	B	0987	005	E	0	P
Alpha - Pure	Inner Diameter = 28mm	Outer Diameter = 63mm	Micron Ratings: 001 = 1 micron 005 = 5 micron 010 = 10 micron 020 = 20 micron 050 = 50 micron 075 = 75 micron 100 = 100 micron 150 = 150 micron	Length: 0987 = 9.87" 1000 = 10" 2000 = 20" 3000 = 30" 4000 = 40"	O-ring Material E = EPDM N = Buna N S = Silicone V = Viton T = PFA encapsulated Viton A = PE (gasket only)*1	End cap: No symbol = Double Open F = Double Open & Cap (DOE) 0 = 222 /Flat (SOE) 5 = 222 /Fin (SOE) 6 = 226 /Flat (SOE) 7 = 226 /Fin (SOE)	Inner Core: P = PP

\*1: PE gasket with Max. temperature 60°C



# Poly-Ray Filter Cartridge with PP Microfiber media

The Poly-Ray pleated filter is made of polypropylene fiber media. Poly-Ray pleated filter combines exceptional solids holding capacities with precise micron ratings than depth filters. The multi-layers sheets of melt-blown media provide absolute particle retention. The Poly-Ray pleated cartridge filter has high solid loading and long service life, which is also designed for membrane's pre-filtration.

## ► Features & Benefits

- Low pressure drop, high capacity of dust and long service life.
- End caps and connectors sealed by thermal bond, free of binder
- Manufacture in clean room, high clean cartridge.
- Pre-flush with 18 Megohm-cm DI water.
- Poly-Ray filter is multi-layers structure, absolute efficiency filter (Absolute rating 99.9%; Bata ratio=1000).
- 100% PP for compatibility with a wide range of process fluids.
- End configurations to fit all standard housings
- Certificated by USP XXIII and FDA CFR Title 21
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:  
90°C: 1.4 kg/cm<sup>2</sup>  
60°C: 2.8 kg/cm<sup>2</sup>  
20°C: 4.9 kg/cm<sup>2</sup>
- Recommended replacement pressure drop: 2.5kg/cm<sup>2</sup>
- Maximum operating temperature: 90°C
- Sterilization: 121°C, 30min 10 times

## ► Applications of products

- Pre-filtration of membrane cartridge
- Filtration of cleaning process
- Pre-filtration of DI water filtration
- Filtration of cooling water system (PCW)
- Filtration of beer or beverage manufacture
- Filtration of medium & low viscosity chemical fluids.

## ► Product specifications

Micron ratings: Absolute rating 0.2, 0.45, 1, 5, 10 ,20 ,50, 100 micron

Material of construction: 100% melt-blown micro-denier PP fiber

Support: PP fiber

Core & End Cap: High Strength PP(OD:69mm, 64mm); HDPE(OD:80mm)  
(Stainless Steel insert end cap is available for PP cage)

O-ring Material: EPDM, Buan N, Silicone, Viton, PFA encapsulated Viton

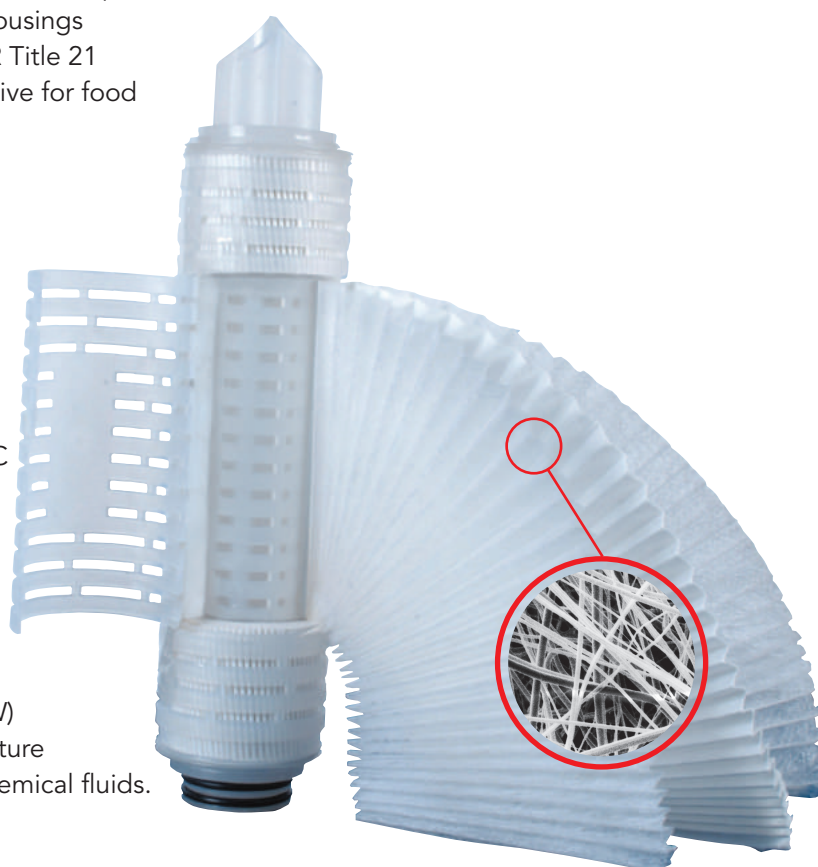
Filtration Area: Poly Ray AR >0.4 m<sup>2</sup> / 10"  
Extra Poly Ray E-AR >0.49 m<sup>2</sup> / 10"

Length: 10", 20", 30", 40"

Inner Diameter: 28mm

Outer Diameter: AR = 69mm(PP); E-AR = 80mm(HDPE); N-AR = 64mm(PP)

Retention Efficiency: >99.9% under multi-pass test



## Pleated Filter with Microfiber media

### Efficiency of Filtration

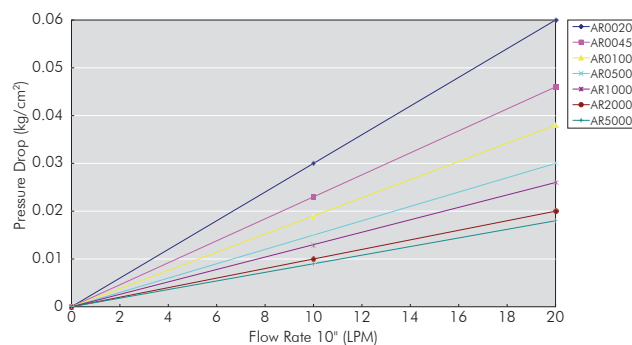
spec.	Retention Efficiency (%)							
	0.2 micron	0.3 micron	0.5 micron	1.0 micron	5.0 micron	10 micron	20 micron	50 micron
AR0020	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0045	62.3	71.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0100	30.2	67.1	73.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0500	----	----	46.8	87.3	>99.9	>99.9	>99.9	>99.9
AR1000	----	----	----	53.9	81.5	>99.9	>99.9	>99.9
AR2000	----	----	----	----	59.3	86.9	>99.9	>99.9
AR5000	----	----	----	----	----	79.8	>89.9	>99.9

\* Multi-pass Test

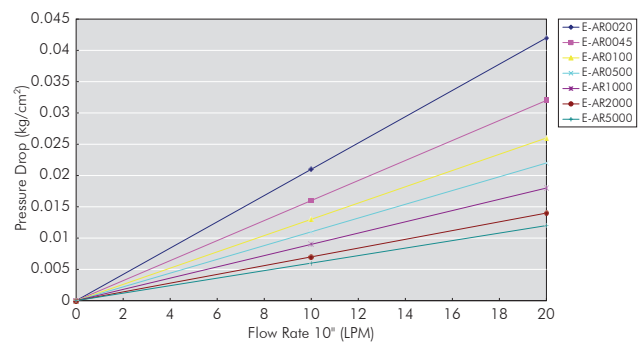
### Suggested equivalent products

- Millipore
  - Pall
  - Pall
  - 3M
  - 3M
  - Pall
- Polygard-CN  
HDC II Filter  
Ultiplet Profile  
Betafine D  
Polypro  
Poly-Fine II

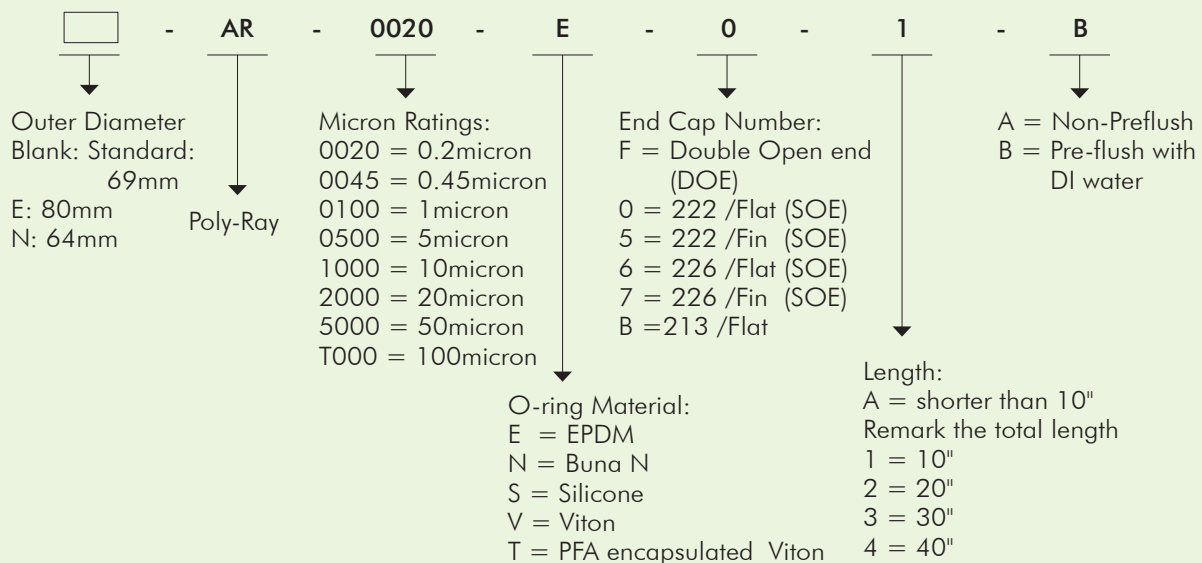
### AR Initial Pressure Drop



### E-AR Initial Pressure Drop



## Ordering Information



\*1: PE gasket with Max. temperature 60°C

# Poly-Ray Plus Filter Cartridge with absolute rating

The Poly-Ray Plus pleated filter is a consistent and effective particle removal elements, with surface finishing with high speed calenders – heated, polished, steel rolls – which press the fabric, making the surface smooth and compact, providing a highly consistent pore structure with narrow pore size distribution, making it ideally suited for pre-filtration, including reliable protection of final membrane filters.

## ► Features & Benefits

- Low pressure drop, high capacity of dust and long service life.
- End caps and connectors sealed by thermal bond, free of binder
- Manufacture in clean room, high clean cartridge.
- Pre-flush with 18 Megohm-cm DI water.
- Poly-Ray Plus filter is an absolute efficiency filter (Absolute rating 99.9%; Beta ratio=1000).
- 100% PP for compatibility with a wide range of process fluids.
- End configurations to fit all standard housings
- Certificated by USP XXIII and FDA CFR Title 21
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:  
90°C: 1.4 kg/cm<sup>2</sup>  
60°C: 2.8 kg/cm<sup>2</sup>  
20°C: 4.9 kg/cm<sup>2</sup>
- Recommended replacement pressure drop: 2.5kg/cm<sup>2</sup>
- Maximum operating temperature: 90°C
- Sterilization: 121°C, 30min 10 times

## ► Applications of products

- Pre-filtration of membrane cartridge
- Filtration of cleaning process
- Pre-filtration of DI water filtration
- Filtration of cooling water system (PCW)
- Filtration of beer or beverage manufacture
- Filtration of medium & low viscosity chemical fluids.

## ► Product specifications

Micron ratings: Absolute rating 0.45, 1, 2, 3, 5 micron

Material of construction: 100% melt-blown micro-denier PP fiber

Support: PP fiber

Core & End Cap: High Strength PP(OD:69mm, 64mm); HDPE(OD:80mm)  
(Stainless Steel insert end cap is available for PP cage)

O-ring Material: EPDM, Buan N, Silicone, Viton, PFA encapsulated Viton

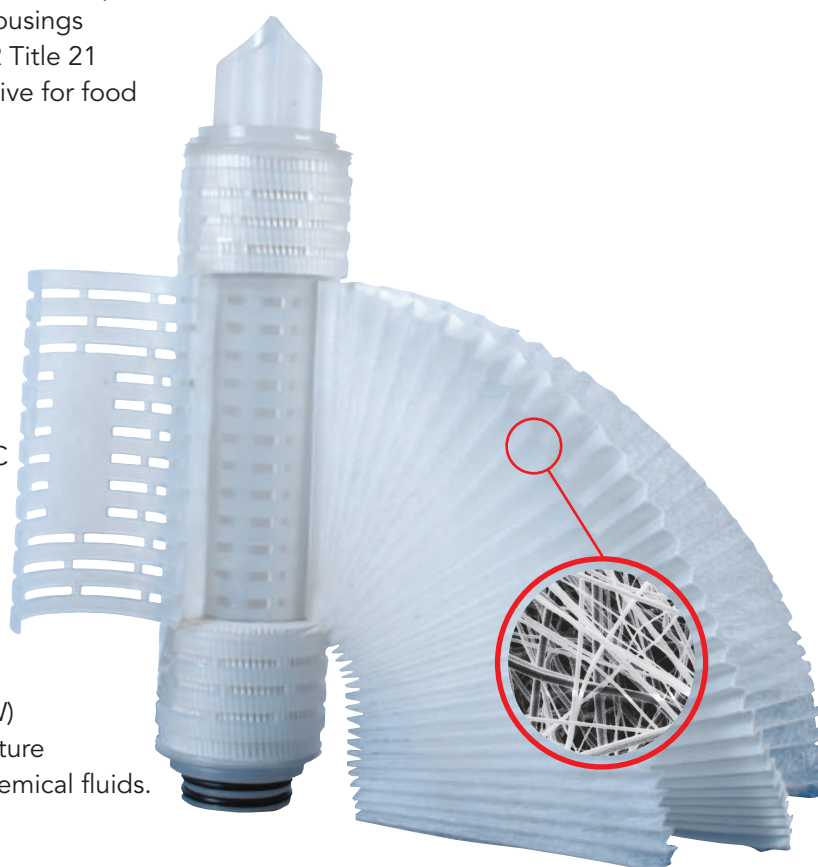
Filtration Area: Poly Ray Plus ARP 0.45 : 0.4 m<sup>2</sup> / 10" , ARP 1, 2, 3, 5 : 0.6 m<sup>2</sup> / 10"

Length: 10" , 20" , 30" , 40"

Inner Diameter: 28mm

Outer Diameter: AR = 69mm(PP); E-AR = 80mm(HDPE); N-AR = 64mm(PP)

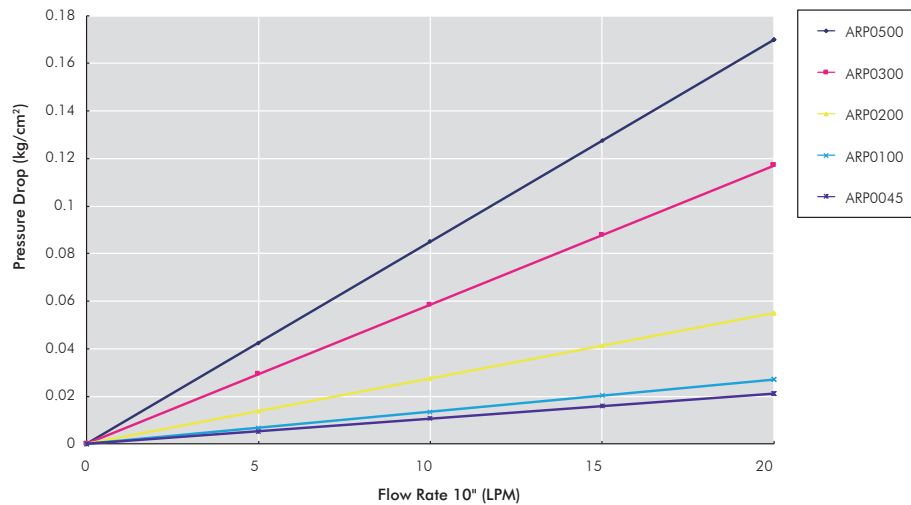
Retention Efficiency: >99.9% under multi-pass test





## Pleated Filter with Microfiber media

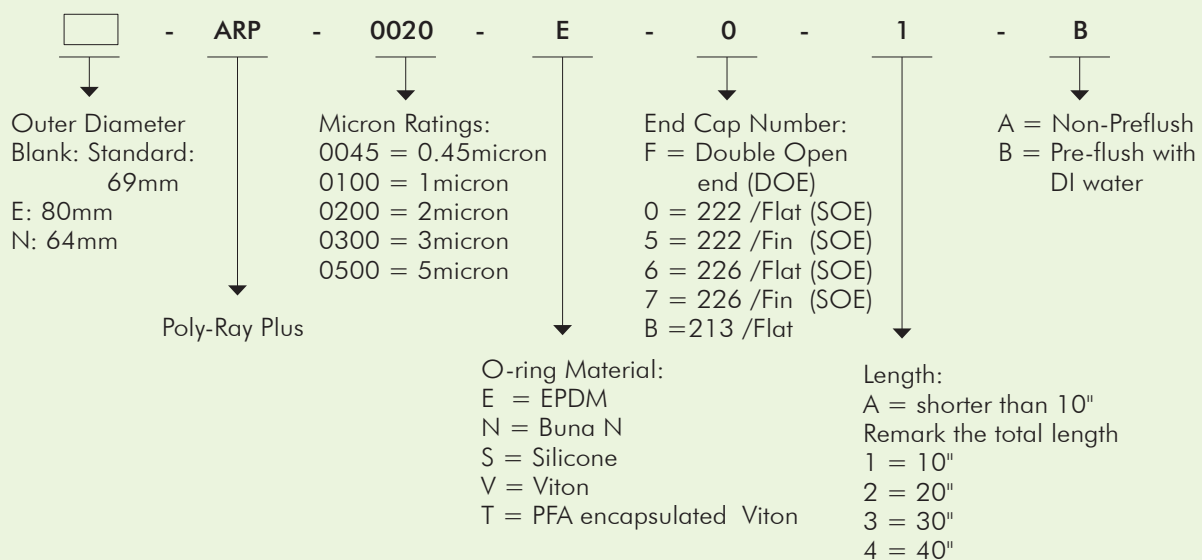
### ARP Initial Pressure Drop



### Suggested equivalent products

- Millipore Polygard-CN
- Pall HDC II Filter
- Pall Ultiplet Profile
- 3M Betafine D
- 3M Polypro
- Pall Poly-Fine II

## Ordering Information



# Poly-Viscosity Filter Cartridge with PP Microfiber multi-layers media

The Poly-Viscosity pleated filter is made of polypropylene fiber media and provide stable filtration of high viscous liquid and high solid contents under low differential pressure without the media deformation. No binders are used in the manufacturing process, which provides low extractables and wide chemical compatibility.

## ► Features & Benefits

- Low pressure drop, high capacity of dust and long service life.
- End caps and connectors sealed by thermal bond, free of binder
- Manufacture in clean room, high clean cartridge.
- Pre-flush with 18 Megohm-cm DI water.
- End configurations to fit all standard housings
- Certificated by USP XXIII and FDA CFR Title 21
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:  
90°C: 1.4 kg/cm<sup>2</sup>  
60°C: 2.8 kg/cm<sup>2</sup>  
20°C: 4.9 kg/cm<sup>2</sup>
- Recommended replacement pressure drop: 2.5kg/cm<sup>2</sup>
- Maximum operating temperature: 90°C
- Sterilization: 121°C, 30min 10 times

## ► Applications of products

- Various binders.
- High-performance paints and high viscous paints
- Filtration of medium & high viscosity chemical fluids.



## ► Product specifications

Micron ratings: Absolute rating 1, 5, 10, 15, 30, 50, 75, 100 micron

Material of construction: 100% melt-blown micro-denier

PP fiber Support: PP fiber

Core & End Cap: High Strength PP (Stainless Steel insert end cap is available for PP cage)

O-ring Material: EPDM, Buan N, Silicone, Viton, PFA encapsulated Viton

Length: 10", 20", 30", 40"

Inner Diameter: 28mm

Outer Diameter: ARH = 69mm

## Pleated Filter with Microfiber media

### Efficiency of Filtration

spec.	Retention Efficiency (%)								
	2 micron	3 micron	5 micron	10 micron	15 micron	30 micron	50 micron	75 micron	10 micron
ARH0100	>95	>99.5	----	----	----	----	----	----	----
ARH0500	----	>98	>99.5	----	----	----	----	----	----
ARH1000	----	----	>75	>99.5	----	----	----	----	----
ARH1500	----	----	----	>75	>99.5	----	----	----	----
ARH3000	----	----	----	>75	>95	>99.5	----	----	----
ARH5000	----	----	----	----	----	----	>99	----	----
ARH7500	----	----	----	----	----	----	----	>99	----
ARHT000	----	----	----	----	----	----	----	----	>90

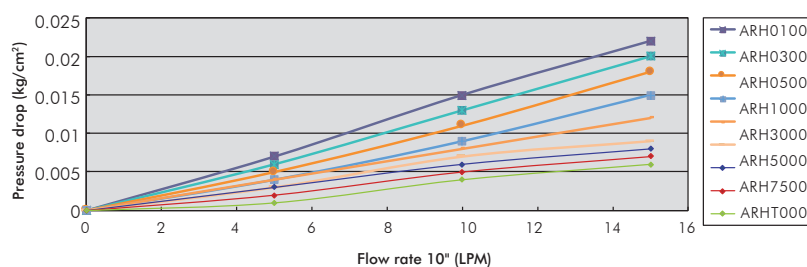
\* Multi-pass Test

### Suggested equivalent products

- ROKI
- Pall
- 3M

SHP Type  
Profile® Star  
Betafine® XL

### ARH Initial Pressure Drop



## Ordering Information

ARH	-	020	-	E	-	0	-	1	-	B
↓		↓		↓		↓		↓		↓
Poly-Viscosity		Micron Ratings: 0100 = 1micron 0500 = 5micron 1000 = 10micron 1500 = 15micron 3000 = 30micron 5000 = 50micron 7500 = 75micron T000 = 100micron		O-ring Material: E = EPDM N = Buna N S = Silicone V = Viton T = PFA encapsulated Viton		End Cap Number: F = Double Open end (DOE) 0 = 222 /Flat (SOE) 5 = 222 /Fin (SOE) 6 = 226 /Flat (SOE) 7 = 226 /Fin (SOE)		Length: A = shorter than 10" Remark the total length 1 = 10" 2 = 20" 3 = 30" 4 = 40"		A = Non-Preflush B = Pre-flush with DI water

# Poly-PBT Filter Cartridge with Polyester Microfiber media

PBT Pleated Filter Cartridge with Polybutylene terephthalate Micro-fiber Media. The PBT pleated filter is made of PBT non-woven media with all PBT support material, which offers high temperature and excellent chemical resistance ability. The multi-layers of PBT melt-blown media provide good performance of liquid filtration and also ensure high flow rate, high dirty holding capacity and low-pressure drop. The PBT pleated filter is suitable for general filtration applications in combined with high temperatures and solvent-based application, which requires high filtration efficiency and high temperature resistance.

## ► Features & Benefits

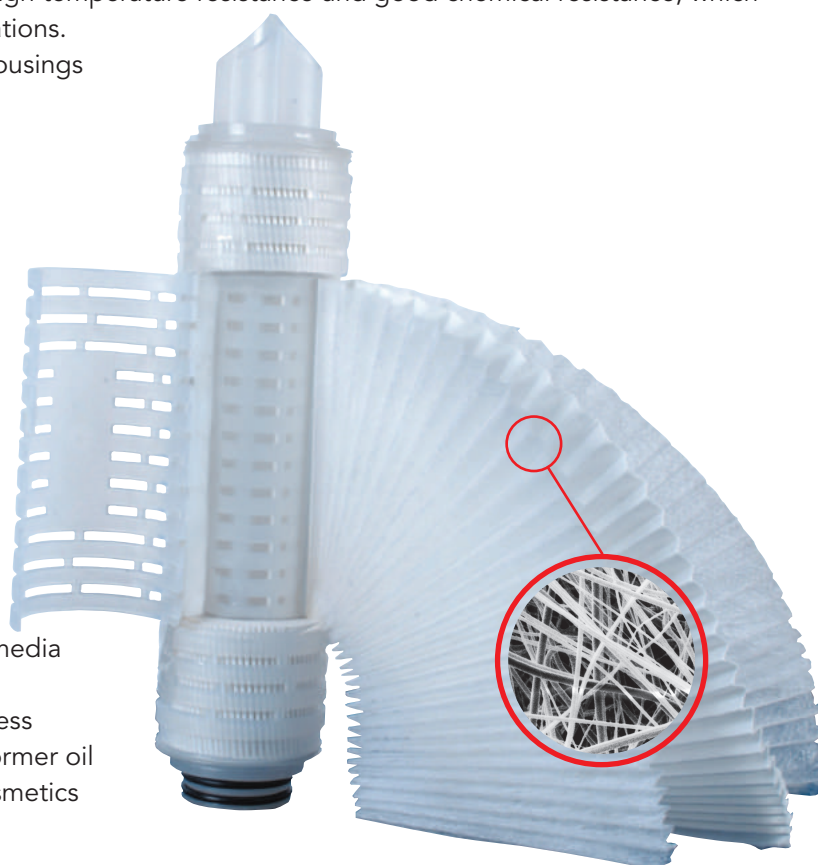
- Low pressure drop, high capacity of dust and long service life.
- End caps and connectors sealed by thermal bond, free of binder
- Manufacture in clean room, high clean cartridge.
- Pre-flush with 18 Megohm-cm DI water.
- All PBT material construction assures high temperature resistance and good chemical resistance, which are suitable for a wide range of applications.
- End configurations to fit all standard housings

## ► Operation conditions

- Maximum operating forward pressure:  
120°C: 1.0 kg/cm<sup>2</sup>  
60°C: 1.5 kg/cm<sup>2</sup>  
20°C: 2.5 kg/cm<sup>2</sup>
- Recommended replacement pressure drop: 2.5kg/cm<sup>2</sup>
- Maximum operating temperature: 120°C
- Sterilization: 121°C, 30min 10 times

## ► Applications of products

- Oxide water and Pure water
- Corrosive fluids and Medicine
- Main filter for solvent-based cleaning media
- Fine filter for hot degreasing baths
- Final filter for hot water in special process
- Circulation filter for thermo and transformer oil
- Particle filter for fine chemicals and cosmetics



## ► Product specifications

Micron ratings: Absolute rating 1, 5, 10, 25, 50 micron

Material of construction: Polybutylene terephthalate Meltblown Nonwovens

Support: Polyester fiber

Core & End Cap: High Strength PBT

O-ring Material: EPDM, Buna N, Silicone, Viton, PFA encapsulated Viton

Filtration Area: Poly PBT >0.5 m<sup>2</sup> / 10"

Length: 10", 20", 30", 40"

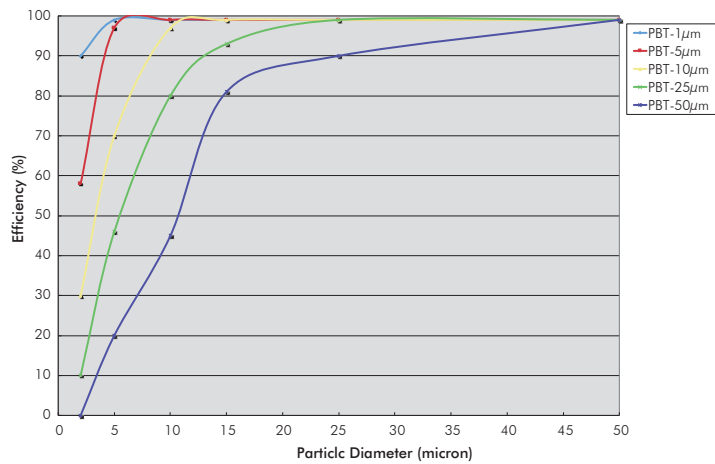
Inner Diameter: 28mm

Outer Diameter: PBT = 69mm

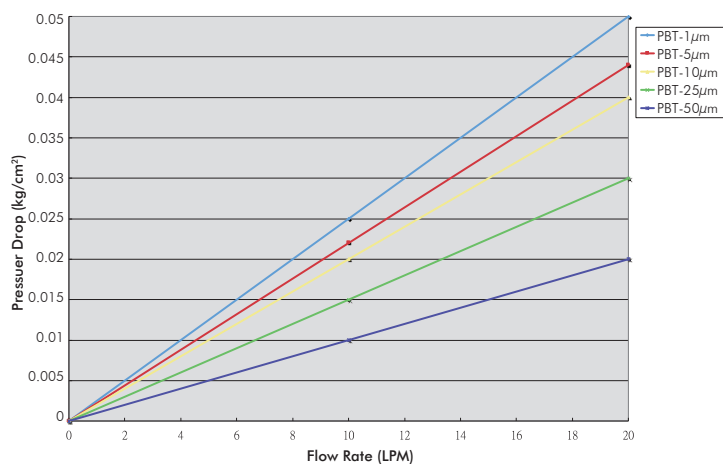


## Pleated Filter with Microfiber media

### Efficiency of Filtration



### PBT Initial Pressure Drop



## Ordering Information

<b>PBT</b>	-	<b>0100</b>	-	<b>E</b>	-	<b>0</b>	-	<b>1</b>	-	<b>A</b>
↓		↓		↓		↓		↓		↓
Poly-PBT		Micron Ratings: 0100 = 1micron 0500 = 5micron 1000 = 10micron 2500 = 25micron 5000 = 50micron		O-ring Material: E = EPDM N = Buna N S = Silicone V = Viton T = PFA encapsulated Viton		End Cap Number: F = Double Open end (DOE) 0 = 222 /Flat (SOE) 5 = 222 /Fin (SOE) 6 = 226 /Flat (SOE) 7 = 226 /Fin (SOE)		Length: A = shorter than 10" Remark the total length 1 = 10" 2 = 20" 3 = 30" 4 = 40"		A = Non-Preflush B = Pre-flush with DI water

# Poly-Fluoro Pleated Filter Cartridge with Hydrophobic or Hydrophilic PTFE Membrane

The Poly-Fluoro membrane pleated filter is made of Hydrophobic or Hydrophilic Polytetrafluoroethylene (PTFE). PTFE are characterized by high chemical inertness. The Poly-Fluoro pleated filter cartridges are widely used to filtrate the strong acid and base solutions that are used in wet etching, solvent stripping, and cleaning manufacturing processes of semiconductor factory. The membrane has about 80~95% porosity, and the uniform pore size distribution. Moreover, the filtration area of each cartridge is as high as 0.8 m<sup>2</sup> (0.67~0.8 m<sup>2</sup> for equivalent products of imported brands). Therefore, Poly-Fluoro PTFE membrane pleated cartridge filter has high flow rate, low pressure drop, and long-life service.

## ► Features & Benefits

- Available in Hydrophobic (CWF) and Hydrophilic (CWP) PTFE membranes.
- Low pressure drop, and high flow rate.
- End caps and connectors are sealed by thermal bond, free of binder.
- Manufactured in clean room, highly clean cartridge.
- Pre-flush with 18 Megohm-cm DI water.
- PTFE membrane has excellent chemical resistance.
- Integrity test is available.
- Certificated by FDA
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:  
90°C: 1.4 kg/cm<sup>2</sup>  
20°C: 5.6 kg/cm<sup>2</sup>
- Maximum operating temperature: 90°C

## ► Applications of products

- Filtration of strong acid, base solutions, solvent and DI water under 80°C which are used in wet etching, solvent stripping, and cleaning manufacturing processes of semiconductor factory.
- Filtration of strong acid, base solutions, and DI water under 80°C which are used in wet etching, solvent stripping, and cleaning manufacturing processes of LCD factory.
- Filtration of CD - R and DVD - R factory.
- Filtration of chemical delivery system for special photoelectrochemical.

## ► Product specifications

Pore Size: 0.05, 0.1, 0.2, 0.45, 1, 3, 10 micron

Membrane: Hydrophobic (CWF) or Hydrophilic (CWP) PTFE (Polytetrafluoroethylene) membrane

Support: PP

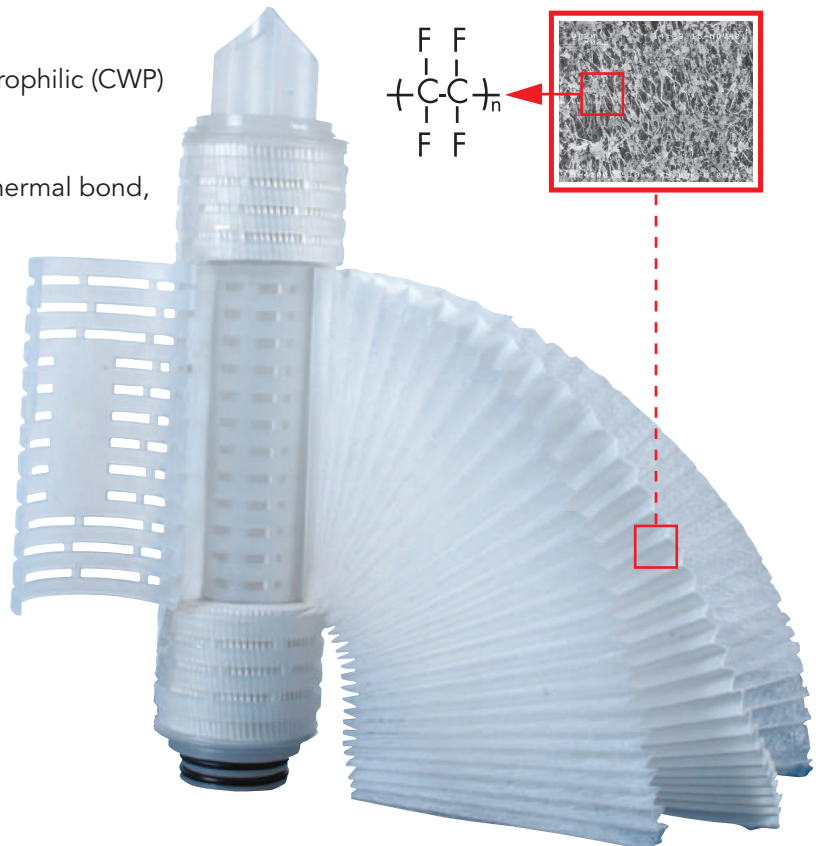
Core & End Cap: High Strength PP(OD:69mm, 64mm); HDPE(OD:80mm)  
(Stainless Steel insert end cap is available for PP cage)

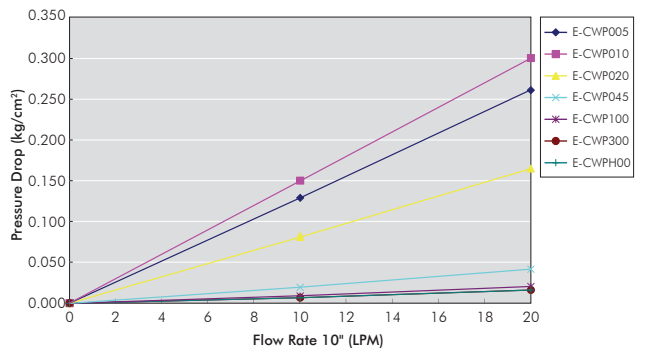
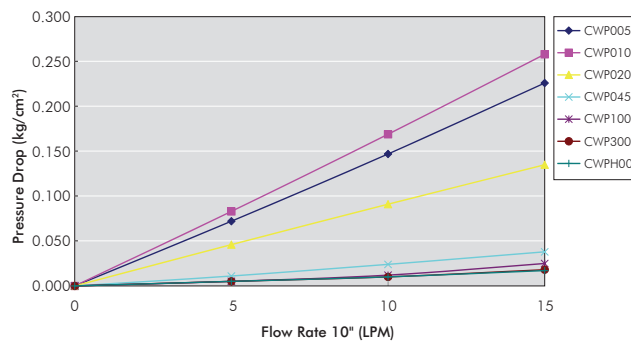
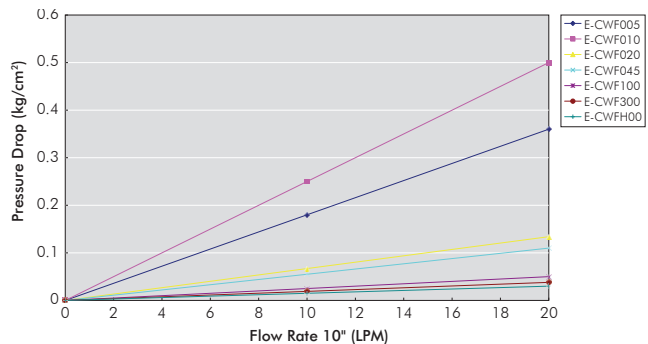
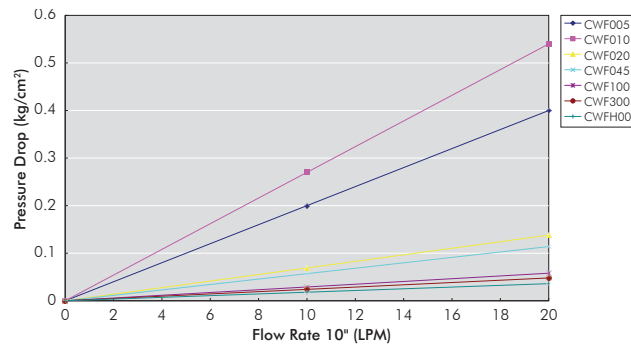
O-ring Material: EPDM, Buna N, Silicone, Viton, PFA encapsulated Viton

Filtration Area: Poly Fluoro CWF/CWP = 0.8 m<sup>2</sup> /10" Extra Poly Fluoro E-CWF/E-CWP = 0.9 m<sup>2</sup> /10"

Length: 10", 20", 30", 40"

Outer Diameter: CWF/CWP = 69mm; E-CWF/E-CWP = 80mm; N-CWF/N-CWP = 64mm

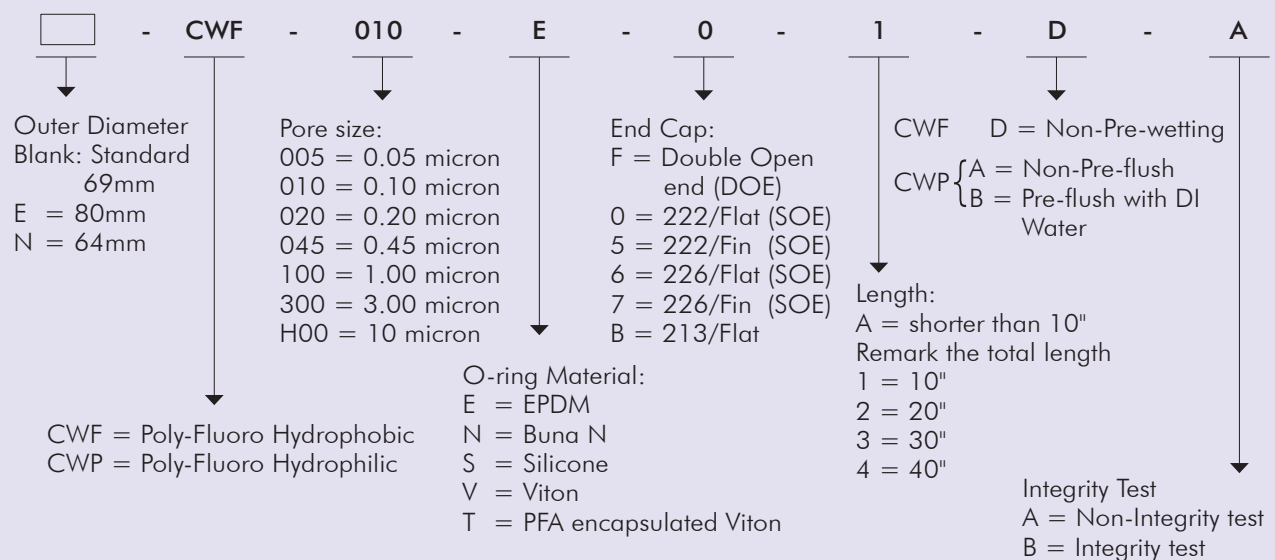




### Suggested equivalent products

- |            |                 |        |              |
|------------|-----------------|--------|--------------|
| • Entegris | Fluorogard Plus | • 3M   | MicroFluoro  |
| • Pall     | Emflon Filter   | • Pall | Chem Fine TR |

## Ordering Information



# Poly-Philic Pleated Filter Cartridge with PES Membrane

The Poly-Philic pleated filter cartridge is made of PES (Polyethersulfone) membrane with a mirrored asymmetric structure that ensure lower pressure drop at high flow rate, and extended service life. PES membrane has excellent chemical resistance and hydrophilization which is suitable for circulated filtration of BOE, clean, DI water in semiconductor industry & photoelectric industry and the terminal fine filtration of general food & beverage factory.

## ► Features & Benefits

- High porous asymmetric membrane that ensure lower pressure drop, high flow rate and extended service life
- End Caps and connectors are sealed by thermal bond, free binder.
- Manufactured in clean room. highly clean cartridge.
- Pre-flush with 18 Megohm-cm DI water for 30 minutes
- Polyethersulfone membrane is permanently hydrophilic membrane without use of additives, surface active agents or post-treatments.
- Integrity test is available.
- Certificated by FDA.
- Available pore size rating 0.04 micron ~ 1.2 micron
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:  
20°C : 5.5kg/cm<sup>2</sup> 80°C : 1.7kg/cm<sup>2</sup>
- Maximum operating temperature: 80°C
- Sterilization:  
Autoclave: 121°C, 30 min, 10 times  
Steam: 121°C, 30 min, 10 times  
Hot water: 80°C, 30 min, 30 times

## ► Applications of products

- Use in clean and rinse process in photoelectric industry
- BOE, photoresists of filtration
- Terminal fine filtration of DI water system
- Terminal fine filtration of food and beverage

## ► Product specifications

Pore size: 0.04, 0.1, 0.2, 0.45, 0.65, 1.2 micron

Membrane: PES (Polyethersulfone) hydrophilic membrane

Support: PP

Core & End Cap: High Strength PP(OD:69mm, 64mm); HDPE(OD:80mm)  
(Stainless Steel insert end cap is available for PP cage)

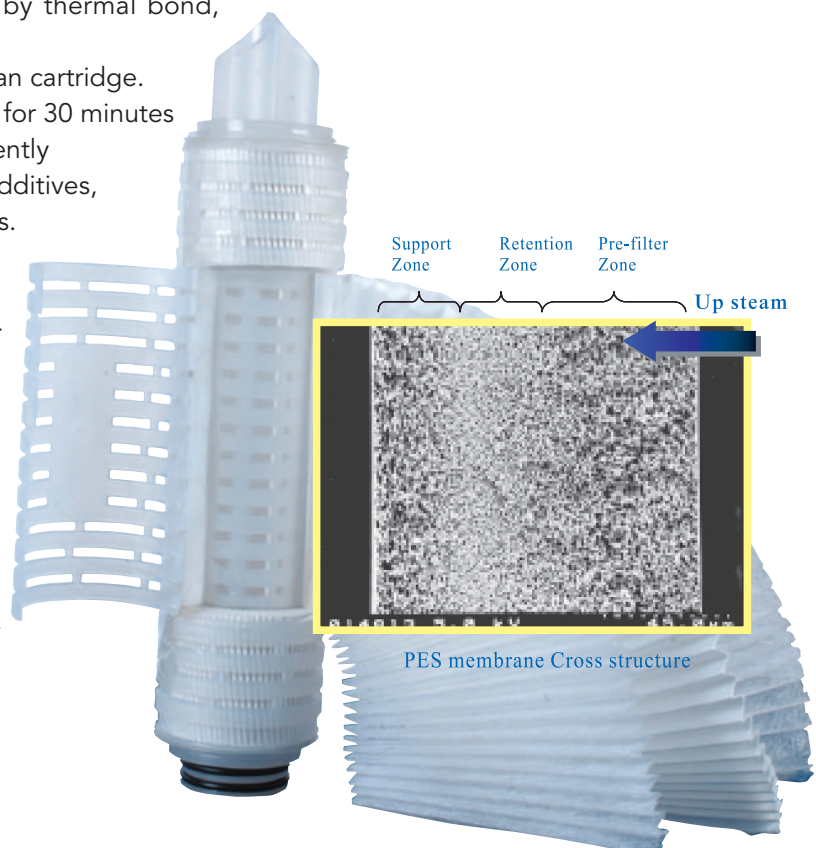
O-ring Material: EPDM, Buna N, Silicone, Viton, PFA encapsulated Viton

Filtration Area: Poly Philic PES = 0.55m<sup>2</sup> / 10"

Extra Poly Philic E-PES = 0.92m<sup>2</sup> / 10" Poly Philic Plus PAX = 0.8m<sup>2</sup> / 10"

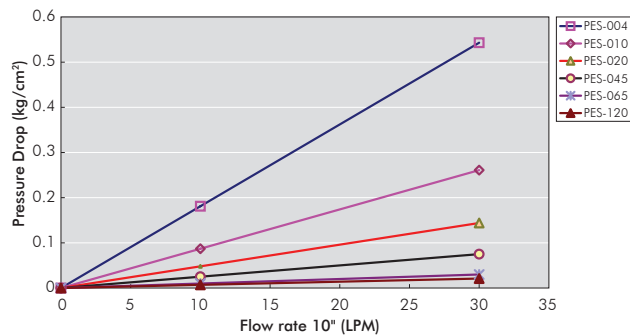
Length: 10", 20", 30", 40"

Outer Diameter: PES.PAX = 69 mm(PP), N-PES = 64mm(PP), E-PES = 80 mm (HDPE)

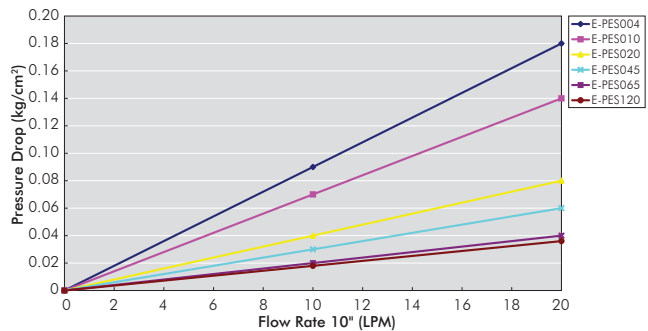




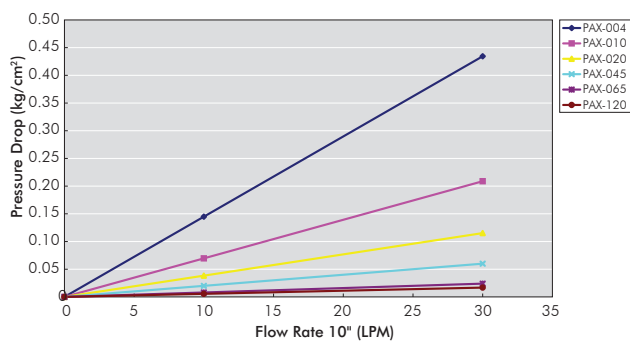
### PES Initial Pressure Drop



### E-PES Initial Pressure Drop



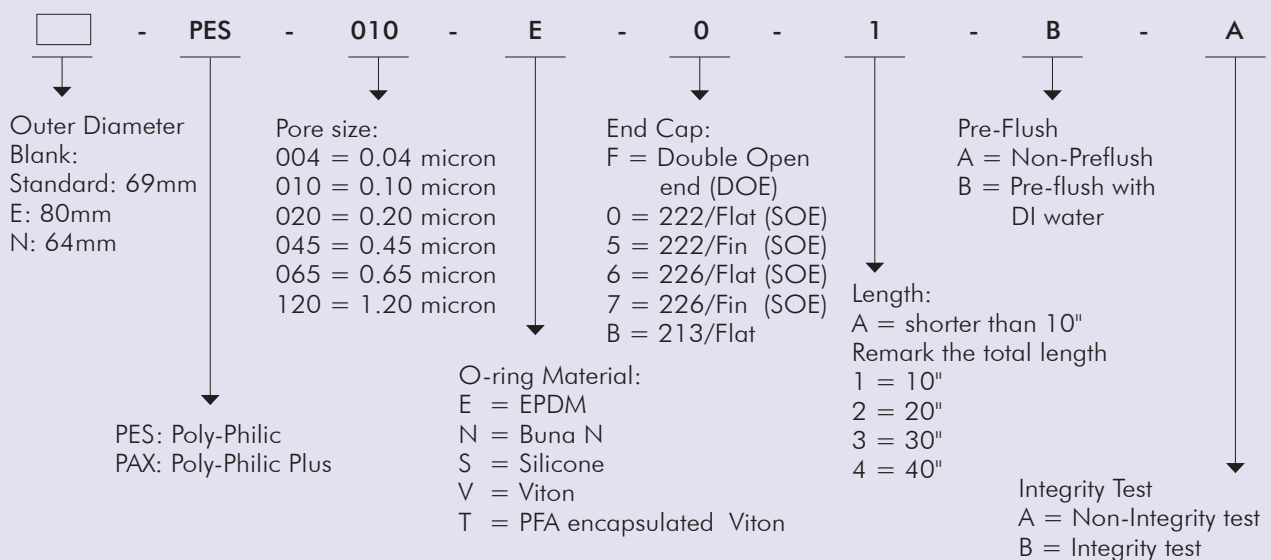
### PAX Initial Pressure Drop



### Suggested equivalent products

- Pall Poly-Fine II 0.2micron
- Pall Varafine VFSG
- Pall Water Fine
- 3M LifeASSURE™

## Ordering Information



# Ultra-Flow Coreless Depth Filter Cartridge

Filtteck Ultra-Flow depth filters have been designed and developed to replace the Pall Coreless product, and substantially reduce operating costs. Ultra-Flow filters have two major design characteristics. The first is a multi-layer structure with fine fibers in the inner layer and coarse fibers in the outer, leading to graded pore diameters and true depth filtration. The graded depth filtration means that Ultra Flow filters have longer service life and lower pressure drop than competing products. The second feature is the large design dimensions. With an inner diameter of 115mm and an outer diameter of 152mm Ultra Flow filters are suitable for high flow rates, reducing equipment space and frequency of replacing filters.

## ► Features & Benefits

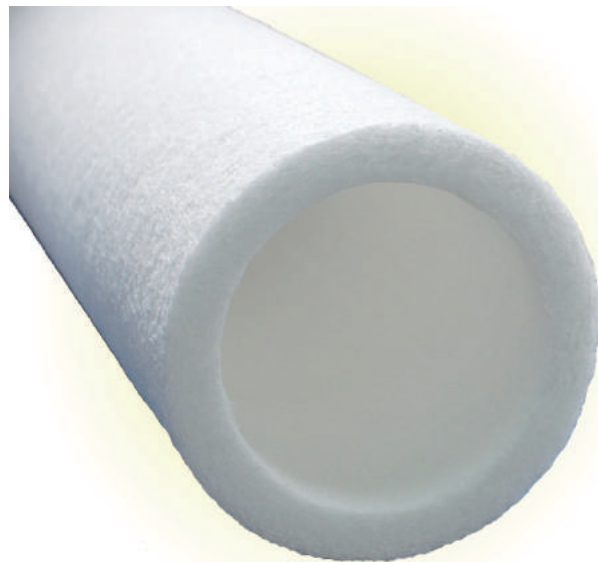
- Replace Pall Coreless, Polypropylene and Nylon filter media are available.
- Formed by thermal bonding with no resins, binders or adhesives.
- High flow rate, low pressure drop and reduced operating costs.
- Multi-layer structure, high contaminant holding capacity, longer filter service life..
- Compatible with a wide range of process fluids.
- NSF42 Certificate is for PP Filter only; FDA CFR Title 21 certificate is for both PP & Nylon.
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:

Polypropylene  
80° C: 1.0 kg/cm<sup>2</sup>  
20° C: 4.0 kg/cm<sup>2</sup>

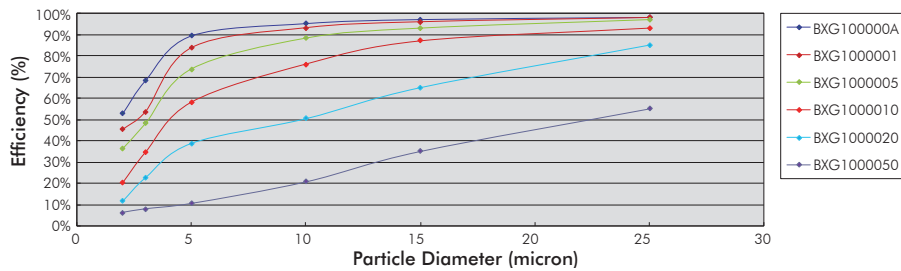
Nylon  
120°C: 1.0 kg/cm<sup>2</sup>  
20°C: 4.0 kg/cm<sup>2</sup>



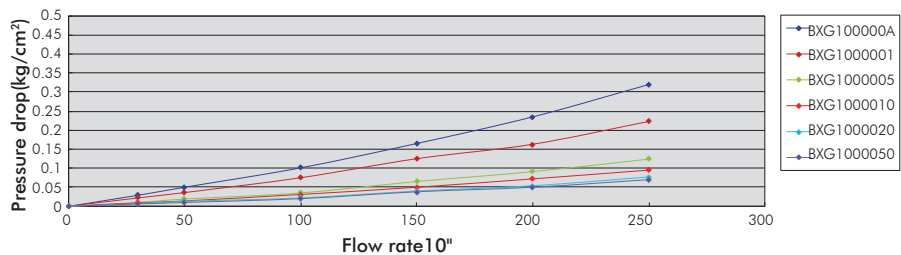
## ► Product specifications

Micron ratings: nominal 00A(PP ONLY), 1, 5, 10, 20, 40, 70, 100 micron
Material of construction: 100% melt-blown micro-denier PP fiber /Nylon fiber
Length: 10", 20", 30", 40" (254mm, 508mm, 762mm, 1016mm)
Inner diameter: 115 mm
Outer diameter: 152 mm

### Efficiency of Filtration



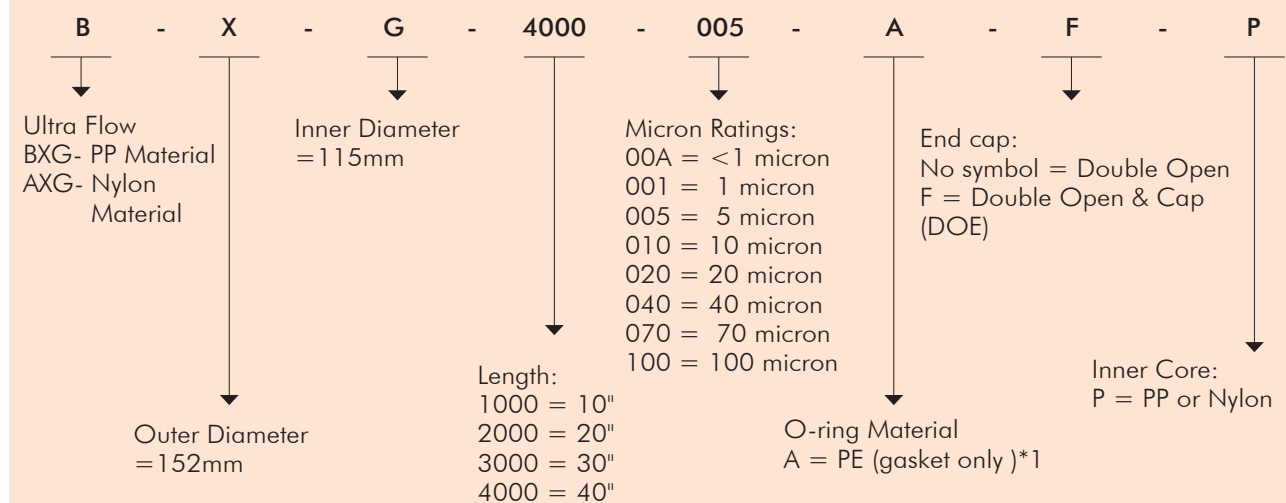
### Initial Pressure Drop



### Suggested equivalent products

- Pall Coreless

### Ordering Information



# Ultra-Pleated Filter Cartridge

## PP, PES, Hydrophobic or Hydrophilic PTFE

Ultra-Pleat Filter is a large diameter pleated cartridge with different media for high flow rate, including Polypropylene, PES membrane, PTFE membrane, offers removal ratings from 0.04  $\mu\text{m}$  to 40  $\mu\text{m}$ . The high-flow filter delivers excellent performance and highly dirt holding capacity, reduces the change-out costs and keeps stability to the flow rate.

### ► Features & Benefits

- Low pressure drop, high capacity of dust and long service life.
- End caps and connectors sealed by thermal bond, free of binder.
- Manufacture in clean room, high clean cartridge.
- Certificated by USP XXIII and FDA CFR Title 21.
- In compliance with the latest EC Directive for food contact.

### ► Operation conditions

- Maximum operating forward pressure:  
80°C: 3.06 kg/cm<sup>2</sup>  
20°C: 4.07 kg/cm<sup>2</sup>
- Recommended replacement pressure drop: 2.5kg/cm<sup>2</sup>
- Maximum operating temperature: 80°C

### ► Applications of products

- LCD wet process.
- Water Process.
- Fuels & Chemicals.
- Microelectronics.
- Power Generation.
- Food & Beverage.



### ► Product specifications

Micron ratings: Polypropylene : 0.2, 0.45, 1, 5, 10, 20, 40 micron  
PES membrane : 0.04, 0.1, 0.2, 0.45, 0.65, 1.2 micron  
PTFE membrane : 0.05, 0.1, 0.2, 0.45, 1, 3, 10 micron

Support: PP fiber

Core & End Cap: High Strength PP

O-ring Material: EPDM, Buan N, Silicone, Viton, PFA encapsulated Viton

Length: 10" (270+/-2mm)

Outer Diameter: 130mm

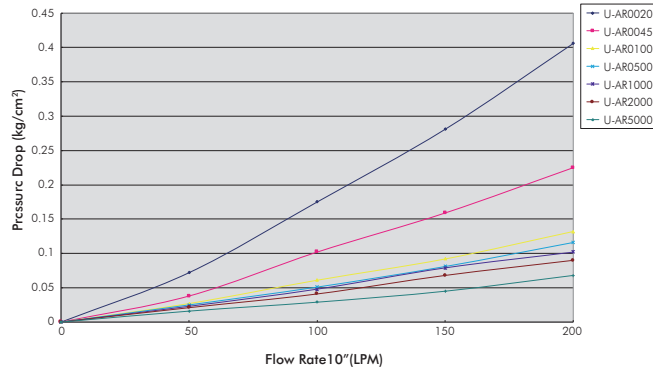


# Filtteck

## High Flow Filter

Plated High Flow Filter

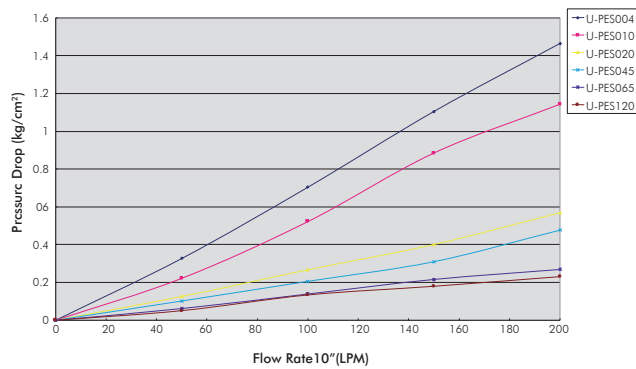
### U-AR Initial Pressure Drop



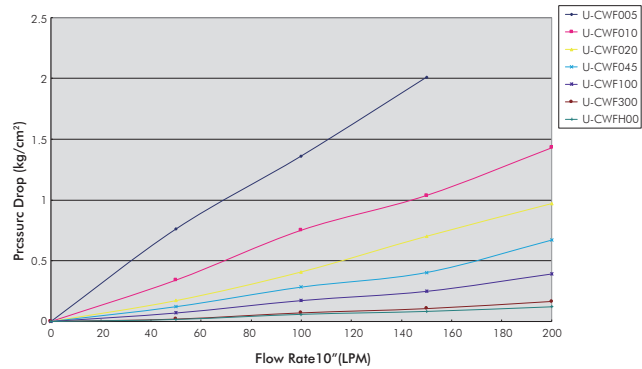
### Suggested equivalent products

- Entegris
  - Pall
  - Entegris
  - FUJIFILM
- Panelgard  
Ultipleat PK Filter  
Savana 334  
PSE/PPE Filter

### U-PES Initial Pressure Drop



### U-CWF Initial Pressure Drop



30

## Ordering Information

U	-	AR	-	0020	-	E	-	V	-	1	-	B	-	A
Outer Diameter U: 130mm		Micron Ratings: AR		0020 = 0.2micron 0045 = 0.45micron 0100 = 1micron 0500 = 5micron 1000 = 10micron 2000 = 20micron 4000 = 40micron		End Cap Number: V = 334 Oring (SOE) U = 334 U Cap(SOE)				Length: 1 = 10"		CWF D = Non-Pre-wetting AR { A = Non-Pre-flush PES { B = Pre-flush with DI Water CWF		Integrity Test (for PES/CWF/CWP) A = Non-Integrity test B = Integrity test
AR : PP PES : PES CWF: Poly Fluoro Hydrophobic CWP: Poly Fluoro Hydrophilic		PES		004 = 0.04micron 010 = 0.1micron 020 = 0.2micron 045 = 0.45micron 065 = 0.65micron 120 = 1.2micron CWF005 = 0.05micron CWF010 = 0.1micron 020 = 0.2micron 045 = 0.45micron 100 = 1micron 300 = 3micron H00 = 10micron		O-ring Material E = EPDM N = Buna N S = Silicone V = Viton T = PFA encapsulated Viton								

# Multi-Flow Pleated Filter Cartridge with PP Microfiber media

Multi Flow filter is a large diameter, single opened ended horizontal pleated cartridge with an inside to outside flow pattern. The high flow filter which ensures high loading capacity for long life, lower cost filtration and stability to the flow rate. The filter is available with 20" to 80" that with one piece media, with fewer seals which reduced the risk of bypass and insure a higher quality filtration

## ► Features & Benefits

- Low pressure drop, high capacity of dust and long service life.
- End caps and connectors sealed by thermal bond, free of binder
- Manufacture in clean room, high clean cartridge.
- Inside to outside flow configuration, all contaminants held in SOE filter.

## ► Operation & Conditions

- Maximum operating forward pressure: 3.5 kg /cm<sup>2</sup>
- Maximum operating temperature: 80°C
- Recommended flow rate in water: 50~75 m<sup>3</sup>/hr/40"

## ► Applications of products

- Food & Beverage:  
Beer, Wine, High Fructose Corn Syrup, Soft Drinks, Dairy, Juice, Bottled Water, Pre-RO
- Fuels & Chemicals:  
Chemical Plants, Refineries, Amines, Specialty Chemicals, Petrochemicals, Polymer, Oil Recovery, Film and Resins
- Microelectronics:  
Makeup Water, Semiconductors, Microlithography, Process Chemicals
- Power Generation:  
Boiler Condensate, Nuclear and Fossil Power Plants, Cogeneration, Gas Turbines
- Water Processing:  
Reverse Osmosis, Centralized Water Systems, Process Water, Municipalities, Desalination



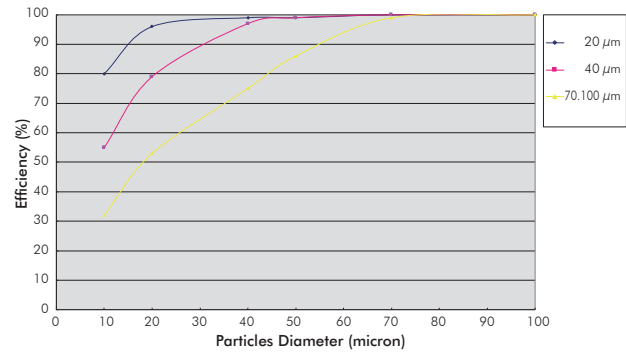
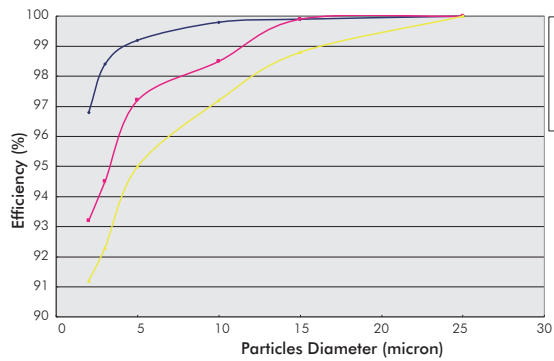
## ► Product specifications

Micron ratings : 2, 4.5, 10, 20, 40, 70, 100 micron
Material of Construction: Polypropylene Micro-fiber Meltblown
Core Material: Polypropylene
End Cap: Polypropylene
O-ring material: EPDM, Buna N, Silicone, Viton, PFA encapsulated viton
Length: 20" , 40" , 60" , 80"
Outer Diameter: 6"

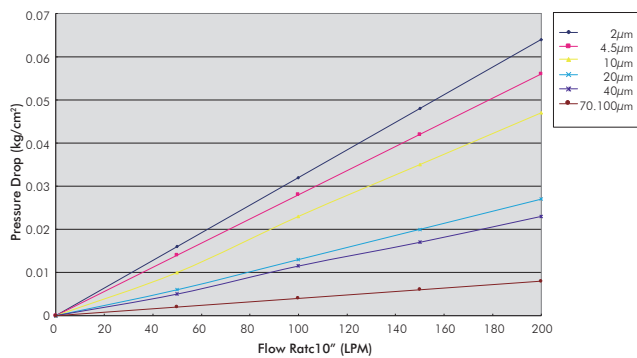
# Filtteck

## High Flow Filter

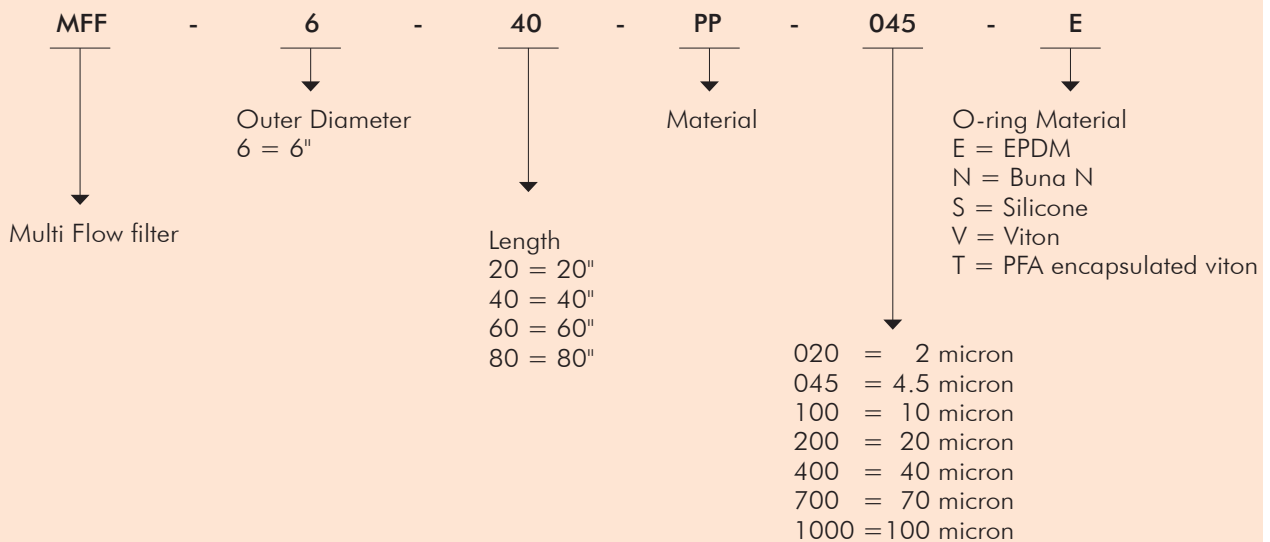
### Efficiency of Filtration



### Initial Pressure Drop



### Ordering Information



# Poly-Flow Pleated Filter Cartridge with PP Microfiber media

Poly-Flow filter is an advanced design product that could permit high flow rate with compact design. This advantage allows fewer filter elements to accommodate to your flow requirements. Radial Pleat design enlarge the surface area, providing high loading capacity for long service life

## ► Features & Benefits

- High loading capacity with lower cost filtration.
- 100% PP for compatibility with a wide range of process fluids.
- Manufacture in clean room, high clean cartridge.
- Double O-ring seal design reduce the risk of fluid bypass.

## ► Operation & Conditions

- Maximum operating differential pressure:  
1micron: 2.46 kg/cm<sup>2</sup>  
over 2micron: 3.5 kg/cm<sup>2</sup>
- Maximum operating temperature: 80°C
- Maximum flow rating:  
1&2 micron: 227 LPM ; All other micron: 302 LPM
- O-ring size: 226 O-ring

## ► Applications of products

- Amine
- Beer and wine
- Completion fluids
- Desalination
- Edible oils
- Fructose
- Ground water clean-up
- Waste water
- Machine Coolant
- Acids and bases
- Carbon beds
- Deep wells
- DI resins
- EDM fluids
- Glycol



## ► Product specifications

Micron ratings : 1, 2, 5, 10, 25, 50, 75 micron
Material of Construction: Polypropylene Micro-fiber Meltblown
Core Material: Polypropylene
End Cap: Polypropylene
O-ring material: EPDM, Buna N, Silicone, Viton, PFA encapsulated viton
Length: 10" , 20" ,30" , 40" , 60"



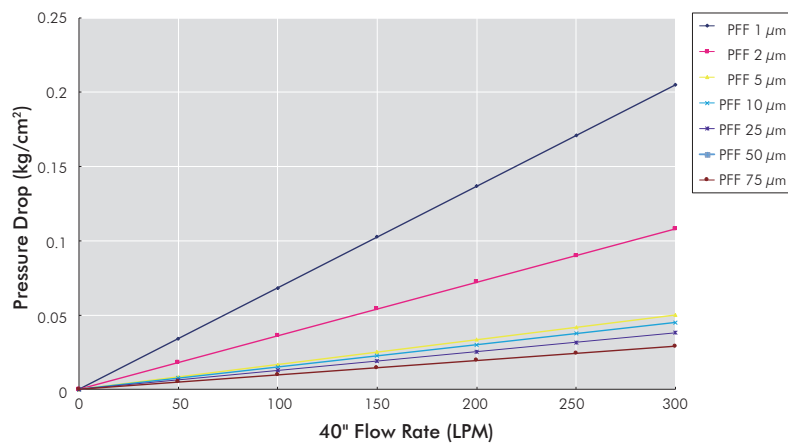
# Filtteck

## High Flow Filter

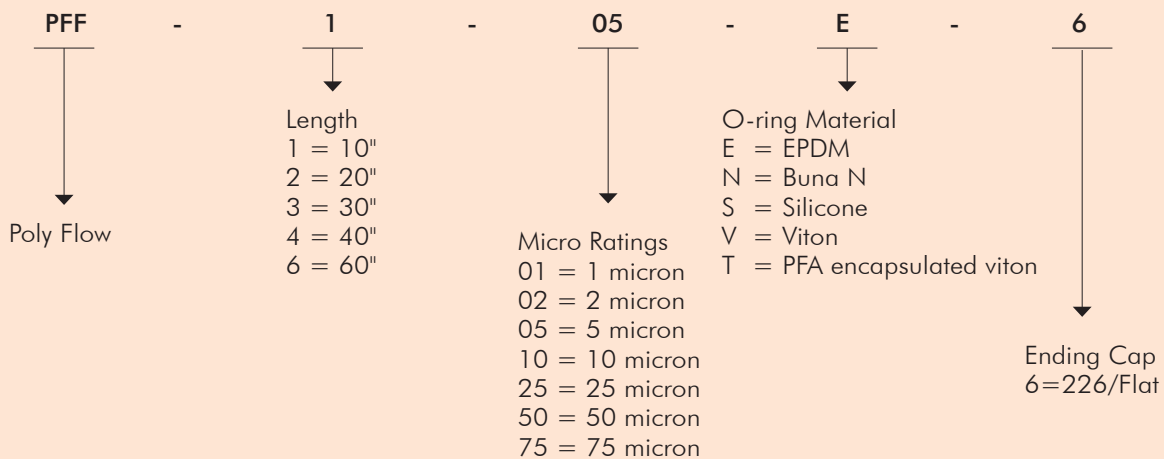
### Efficiency of Filtration

Retention Efficiency (%)						
Micron Rating	2 micron	5 micron	10 micron	25 micron	50 micron	75 micron
Efficiency 99%	2	5	10	25	50	75
Efficiency 95%	-	2	8	15	25	50
Efficiency 90%	-	-	5	10	20	35
Efficiency 75%	-	-	3	8	15	25
Efficiency 50%	-	-	-	5	10	15

### Initial Pressure Drop



### Ordering Information



# Max-Flow Pleated Filter Cartridge with PP Microfiber media

The high capacity pleated stacking filter is appropriate for inside existing baskets without hardware changes. It is characterized by higher filter surface area and dirt holding capacity. The inside-out flow design and high capacity pleated stacking structure could hold 50 times higher impurities than standard bag filter.

## ► Features & Benefits

- High surface area, high flow capacity
- Inside-outside flow configuration holds all contaminants in single ended filter.
- Shorten in downtime and easy to change out
- Available to fit most Size 1 and Size 2 bag housing without hardware changes
- All Polypropylene material provides high chemical resistance
- Cartridges are free of surfactants, resins, binders and adhesive

## ► Operation & Conditions

- Maximum operating differential pressure: 5.1 bar ( 75 psi ) at 25°C
- Recommended change-out differential pressure: 2.4 bar (35 psi)
- Maximum operating temperature: 80°C

## ► Applications of products

- RO Pre-Filtration
- Cooling water filtration
- Pre filters or Final filters for waste water
- Food and Beverage filtration
- Oil Filtration



## ► Product specifications

Micron ratings : 1, 3, 5, 10, 20, 40, 70 micron

Material of Construction: Filter Media: Pleated Stacking Polypropylene Nonwoven fiber

Support and Drainage: Polypropylene

Core Material: Polypropylene

End Cap: Polypropylene

Length: Standard Size 1/ Standard Size 2/ 40" Length

Outer Flange Diameter: 7", equal to Size 1/ Size 2 Bags

Outer Diameter: 6" (152.4 mm)

O-ring material: EPDM, Viton

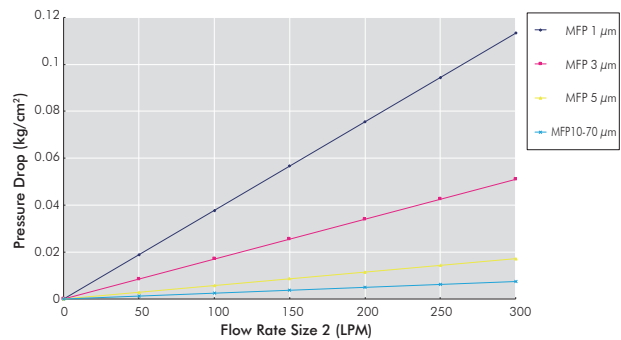
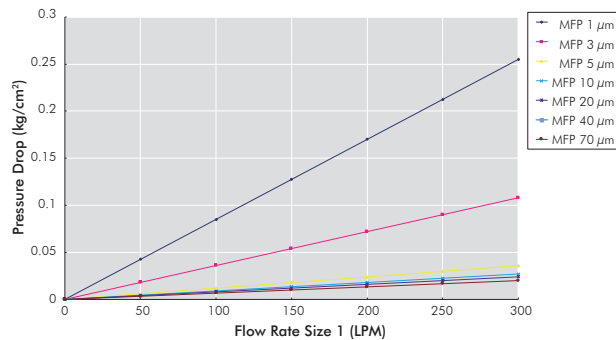
# Filtteck

## High Flow Filter

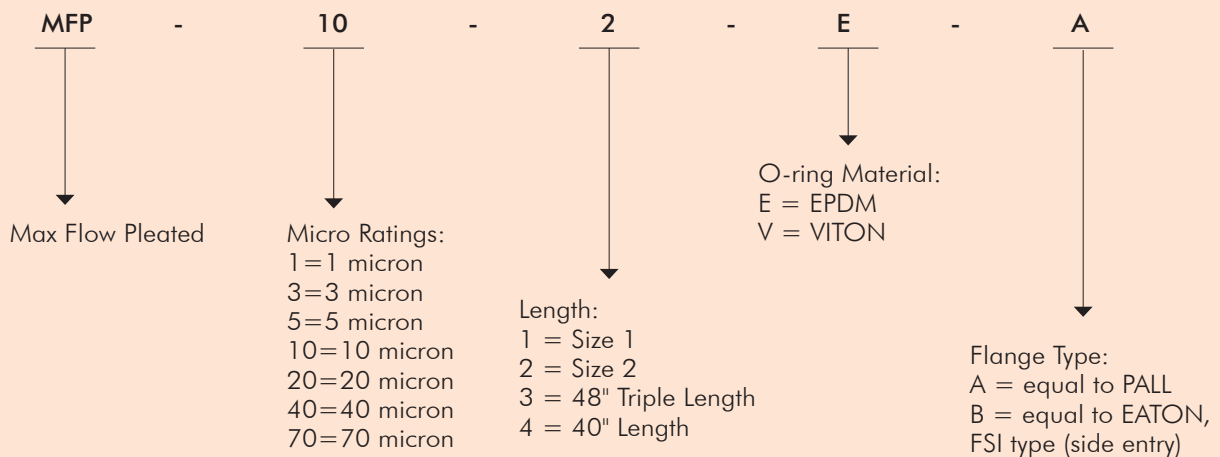
### Efficiency of Filtration

Particle Retention Efficiency (%)						
Micron Rating	3 micron	5 micron	10 micron	20 micron	40 micron	70 micron
Efficiency 99%	3	5	10	20	40	70
Efficiency 95%	-	3	5	10	20	30

### Initial Pressure Drop



### Ordering Information



# AGF High Performance Absolute Filter Bag

AGF filter bag is made of pure melt blown polypropylene fiber, and with the latest filter technology, it is a high efficiency filter bag, leading the bag filter to a new realm.

## ► Features & Benefits

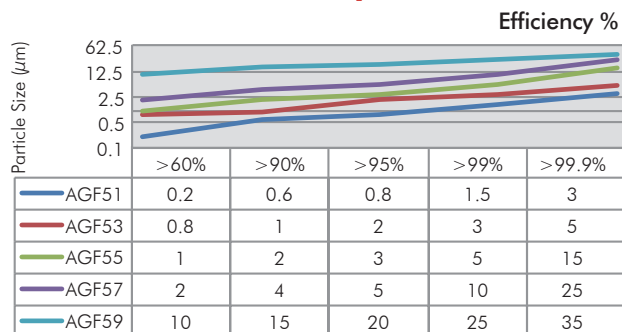
- High efficiency filter bag, the graded density of the material for better capacity and extending the service life.
- The double outer protective layers eliminate the problem of fiber release.
- The filter bags are made of FDA approved materials.
- 100% pure meltblown polypropylene construction without adding any resin, binder or surface treatment.
- Full welding technology with collar design.



## ► Filtration Efficiency

spec.	$\Delta P(\text{bar})$ Size2 @10m <sup>3</sup> /h		Max Op Temp(°C)	
	Polypropylene	Polyester	Polypropylene	Polyester
AGF 51	0.09	0.09		
AGF 53	0.07	–		
AGF 55	0.05	0.05	90	150
AGF 57	0.04	0.04		
AGF 59	0.03	–		

## ► Initial Pressure Drop



## ► Product specifications

Micron ratings: 1.5, 3, 5, 10, 25 Micron

Material of construction: Polypropylene melt blown

Size: #1 -7"x16", #2-7"x32"

## Ordering Information

AGF	-	51	-	P	2	-	F	-	U
↓		↓		↓			↓		↓
AGF: PP AGFE : Polyester		Material: 51 = 1.5 µm 53 = 3 µm 55 = 5 µm 57 = 10 µm 59 = 25 µm		Size: 1 = 7" x 16" 2 = 7" x 32"			Collar Type: F : F Type (PP) G : G Type (PP) SS: 304 Ring S : Galvanized steel ring N : None collar U : Band N : Nylon E : Santoprene		Manufacturer Type: U: Weld Collar Weld Bag



# ABP High Performance Filter Bag

ABP filter bag is made of pure melt blown polypropylene fiber with graded density to offer high efficiency of filtration, maximize dirt-holding capacity, and extend service life.

## ► Features & Benefits

- Complete standard size and customized design is workable.
- The fine fiber provide excellent particle retention for organic compounds with bigger molecular weight.
- The structure of graded density offers high accuracy of filtration, especially for soft impurities (ex: gel)
- 100% melt-blown PP for compatibility with a wide range of process fluids.



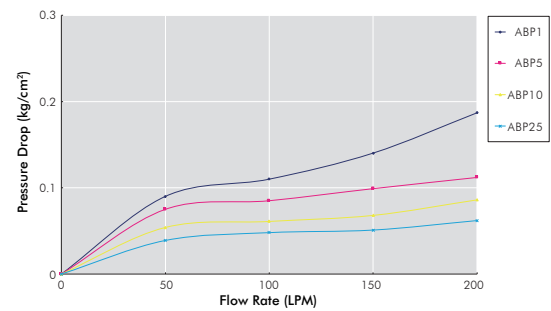
## ► Operation & Conditions

- Maximum operating forward pressure:  $\leq 2 \text{ kg/cm}^2$
- Recommended replacement pressure drop:  $\leq 1.5 \text{ kg/cm}^2$
- Maximum operating temperature:  $80^\circ\text{C}$

## ► Filtration Efficiency

Material	Model	Filtration Efficiency( $\mu\text{m}$ )				$\Delta P(\text{bar})$ Size2 @10m <sup>3</sup> /h
		> 60%	> 90%	> 95%	> 99%	
Polypropylene	ABP 1	–	1	2	4	0.09
	ABP 5	1	2	4	5	0.05
	ABP 10	2	5	10	30	0.04
	ABP 25	10	30	10	–	0.03

## ► Initial Pressure Drop



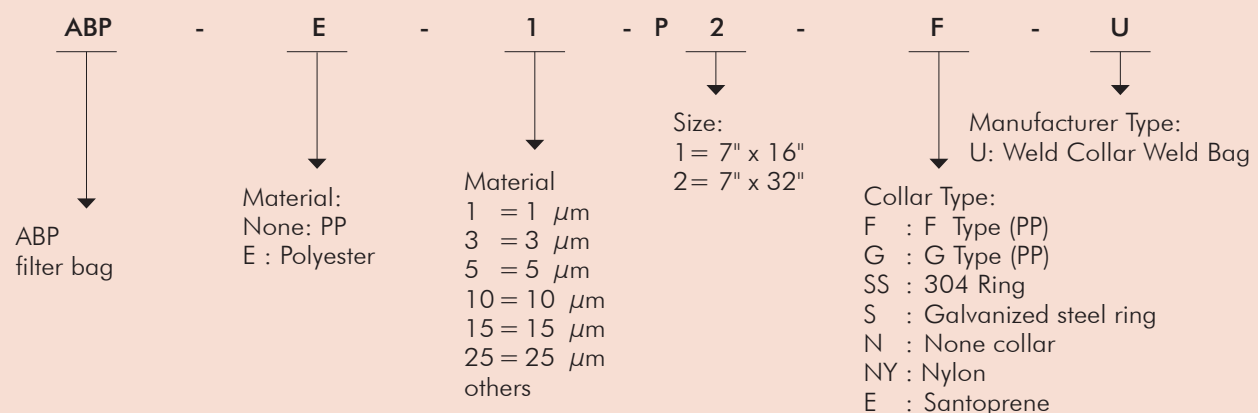
## ► Product specifications

Micron ratings: 1, 3, 5, 10, 15, 25, and other  $\mu\text{m}$

Material of construction: Polypropylene melt blown , Polyester

Size: #1 -7"x16", #2-7"x32"

## Ordering Information



# PGF High Performance Absolute and Seamless Filter Bag

PGF filter bag is developed with a unique multi-layer seamless structure which delivers both absolute filtration and longer service life. The progressive density design removes contaminant while passing through each finer layer of filter bag. Meanwhile, the patent collar offers better filtration performance, and adapts to any bag filter housing to ensure bypass-free filtration.

## ► Features & Benefits

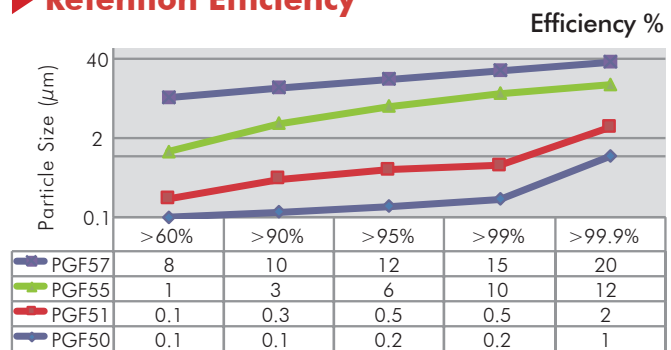
- The progressive density design extends the service life, even for filtration of extreme dirty liquid.
- 100% polypropylene material, without adhesive and silicone.
- Patent collar completes the seal
- Construction of multi-layer offers high filtration performance to remove particle over 0.2  $\mu\text{m}$
- Absolute efficiency (greater than 99%) for particle size from 0.2 to 10  $\mu\text{m}$ , equally well for smaller micron rating
- PGF Filter Bags can replace expensive filter cartridges and work even better, such as application of water filtration, fine chemicals, and microelectronics, etc.
- FDA compliant according to CFR title 21



## ► Operation & Conditions

Condition	$\Delta P(\text{bar})$	Max. Op Temp(°C)			
	Size2 @10m <sup>3</sup> /h				
Material	PP	Polyester	PP	Polyester	
PGF 50	0.25	90	150		
PGF 51	0.17				
PGF 55	0.06				
PGF 57	0.03				

## ► Retention Efficiency



## ► Product specifications

Micron ratings: 0.3, 0.5, 10, 15, and other  $\mu\text{m}$

Material of construction: Polypropylene melt blown, Polyester

Size: #1 -7"x16", #2-7"x32"

## Ordering Information

PGF	-	E	-	51	-	P	2	-	G	-	U
PGF							Size:				Manufacturer Type:
filter bag		Material:		Material			1 = 7" x 16"				U: Weld Collar Weld Bag
		None: PP		50 = 0.3 $\mu\text{m}$			2 = 7" x 32"		Collar Type:		
		E : Polyester		51 = 0.5 $\mu\text{m}$					F : F Type (PP)		
				55 = 10 $\mu\text{m}$					G : G Type (PP)		
				57 = 15 $\mu\text{m}$					SS : 304 Ring		
				others					S : Galvanized steel ring		
									N : None collar		
									NY : Nylon		
									E : Santoprene		

# MBP Oil Removal Filter Bag

PP Oil Removal filter bag is made of 100% PP melt-blown microfiber with great chemical resistance and high capacity of dirt holding, also provides great oil absorbency making MBP filter bags ideally suitable for the oil and polymer removal needs.

## ► Features & Benefits

- Manufactured by 100% PP, with great chemical resistance.
- Effective oil absorbency.
- High flow, low initial pressure drop, and large dirt holding capacity.
- Multi layers of construction enlarge surface area.

## ► Operation & Conditions

- Maximum operating forward pressure:  $\leq 1.5\text{kg/cm}^2$
- Recommended operating pressure drop:  $\leq 2.5\text{ kg/cm}^2$
- Maximum operating temperature:  $82^\circ\text{C}$

## ► Oil Absorbency

Product Model	Mineral Oil- Grams at saturation ( Size2: 180mm*810mmL)
• MBP 200	• 1400
• MBP 250	• 1750
• MBP 400	• 2800
• MBP 500	• 3500



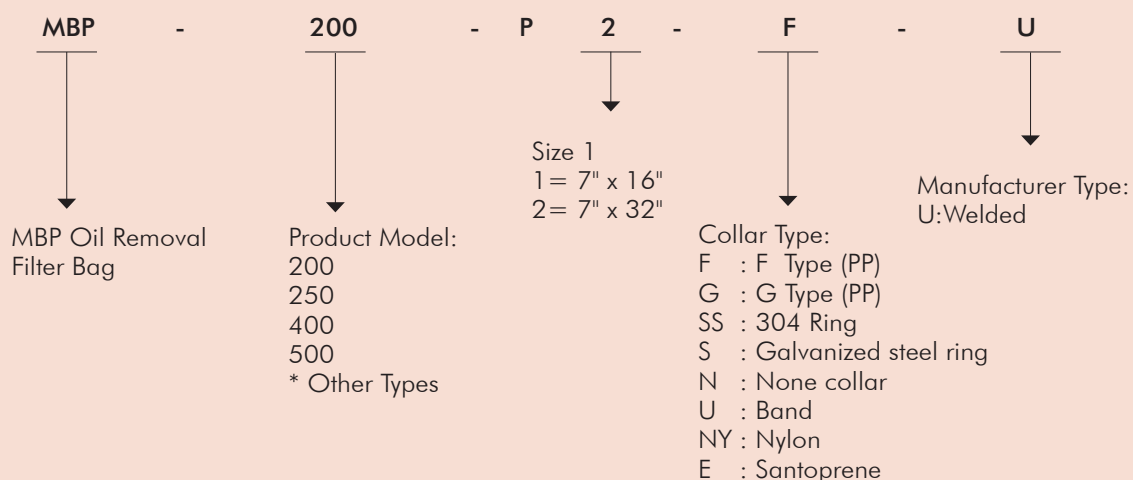
## ► Product specifications

Product Model : 200,250,400,500, other

Material of construction: Polypropylene melt blown

Size: #1 -7"x16", #2-7"x32"

## Ordering Information



# LCR 100 Oil Removal Filter Bag with high flow

LCR 100 Oil removal filter bag is made from 100% polypropylene melt blown micron fiber, and has reached over 90% efficiency viable in suggested applications. With unique fiber and deep structure, LCR 100 not only provides excellent filtrate efficiency at very low initial pressure drop, also its large surface area performs greatly on oil absorbency. LCR 100 is a filter bag that works better and installs easier than a filter cartridge.

## ► Features & Benefits

- Manufactured by PP, with great chemical resistance.
- Effective oil absorbency.
- Low initial pressure drop, and high particle removal efficiency.
- Multi layers of construction enlarge surface area.
- FDA compliant according to CFR Title 21
- Sealing Ring: Stainless steel and Polypropylene ring available.

## ► Operation & Conditions

- Maximum differential pressure: 35 psid
- Maximum operating temperature: 82°C
- Maximum water flow rate: 50 gpm
- Recommended water flow rate: 25 gpm

## ► Applications of products

- Fuels & Chemicals:  
Amines, Acids and bases, DI resins, Glycol, Organic Solvents, Machine Coolants, Completion Fluids, Photo Chemicals
- Microelectronics:  
Plating Solutions, Makeup Water
- Water Processing:  
Deep wells, Desalination, Groundwater Cleanup, Reverse Osmosis, Waste Water



## ► Product specifications

Micron rating: 113,114,115,116,118,119  
123,124,125,126,128,129, 130, 135

Material of construction: Polypropylene melt blown

Size: #1 -7"x16", #2-7"x32"



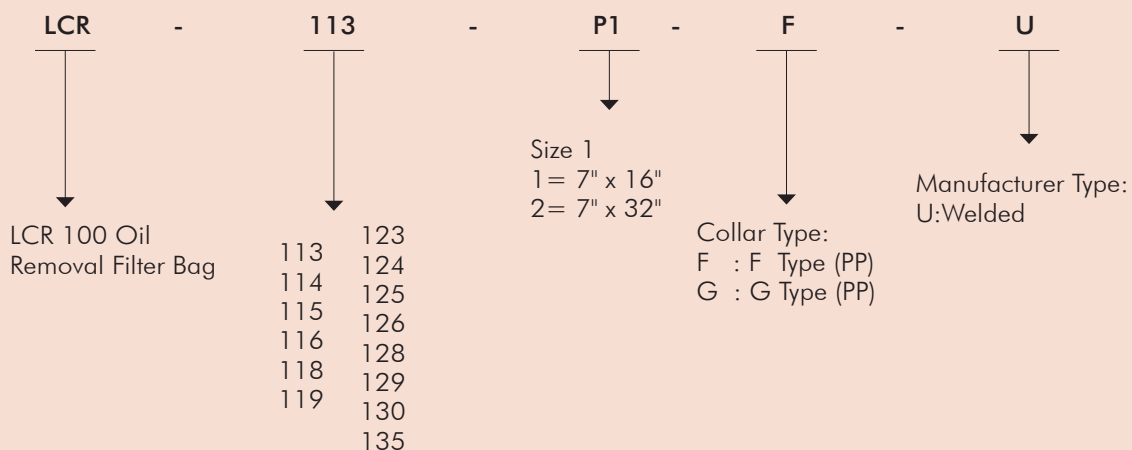
## Efficiency of Filtration

Particle Removal Efficiency									
Product Number		113/123	114/124	115/125	116/126	118/128	119/129	130	135
Loading Capacity	Efficiency 95%	2	5	10	15	40	30	15	8
	Efficiency 90%	1.3	1.3	6.5	8	29	25	14	6
	Efficiency 75%	0.8	1	2.5	7	21	20	10	4
	Efficiency 50%	<0.7	<1.0	<1.0	4.5	7	15	6	1
$\Delta P(\text{bar})$ Size 2 @ 44GPM (10m <sup>3</sup> /h)		0.4(0.025)	0.3(0.02)	0.2(0.01)	0.2(0.01)	0.2(0.01)	0.2(0.01)	0.7(0.05)	0.3(0.02)

### Loading:

Loading capacity is extremely high due to the large amount of surface area. The data above shows typical loading capacities of the different micron rated filters. Loading capacity is determined by challenging a filter with a dispersion of silica test dust in water at the recommended flow rate. Pressure drop is monitored and testing is terminated at 35 psid (2.4 bar). The loading capacity reported is the dry weight gain of the bag.

## Ordering Information



# LCR 500 Oil Removal Filter Bag with high efficiency

LCR 500 Oil removal filter bag is made from 100% polypropylene melt blown micron fiber, with melt seamlessly multi-layers which includes the prefiltration layer and a complex design of final filtration layers. This construction enables the filter bag with maximization of capacity of solids loading in high flow rate, larger surface area reached to 38 square feet, higher filtration efficiencies from 95% to 99%, and a longer service life.

## ► Features & Benefits

- Manufactured by PP, with great chemical resistance.
- Effective oil absorbency, performs greatly on heavy contamination fluids.
- Low initial pressure drop, and high particle removal efficiency.
- Multi layers of construction enlarge surface area.
- FDA compliant according to CFR Title 21
- Sealing Ring: Stainless steel and Polypropylene ring available.

## ► Operation & Conditions

- Maximum differential pressure: 35 psid
- Maximum operating temperature: 82°C
- Maximum water flow rate: 50 gpm
- Recommended water flow rate: 25 gpm

## ► Applications of products

- Fuels & Chemicals:  
Amines, Acids and bases, DI resins, Glycol, Organic Solvents, Machine Coolants, Completion Fluids, Photo Chemicals
- Microelectronics:  
Plating Solutions, Makeup Water
- Water Processing:  
Deep wells, Desalination, Groundwater Cleanup, Reverse Osmosis, Waste Water



## ► Product specifications

Micron rating: 522, 525, 527, 529

Material of construction: Polypropylene melt blown

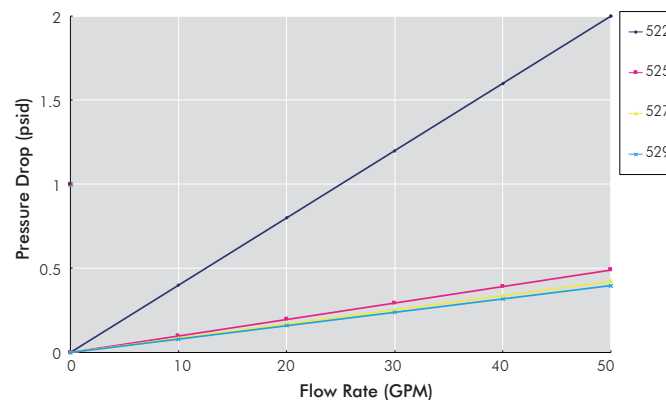
Size: #2-7"x32"

### Efficiency of Filtration

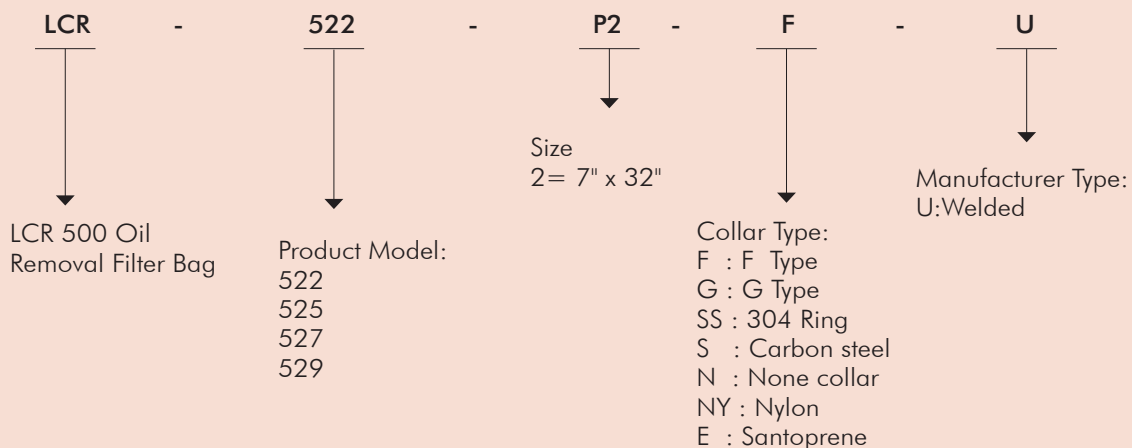
Particle Removal Efficiency					
Product Number		522	525	527	529
Performance Data	Dirt-Grams at 25 gpm (5.6 cum/hr)	308	489	755	980
	Dirt-Grams at 25 gpm (11.2 cum/hr)	315	460	645	925
	Oil-Grams at saturation *mineral oil*	4785	5072	6689	3625
Loading Capacity	Efficiency 95%	2.5	5	15	48
	Efficiency 90%	1.5	3	9	35
	Efficiency 75%	0.9	1.5	8	30
	Efficiency 50%	<0.7	1	7	22

\*Loading: Loading capacity is extremely high due to the large amount of surface area available. The data above shows typical loading capacities of the different micron-rated filters. Loading capacity is determined by challenging a filter with a dispersion of silica test dust in water at the recommended flow rate. Pressure drop is monitored and testing is terminated at 35 psid (2.4 bar). The loading capacity reported is the dry weight gain of the bag.

### Initial Pressure Drop



### Ordering Information



A horizontal collage of four images. From left to right: 1. A close-up of a circuit board with a central square chip. 2. A circular view of a microchip with a grid of colorful dots. 3. A stack of CDs or DVDs, showing their reflective surfaces. 4. A hand typing on a laptop keyboard, with a small globe icon and a stylized sunburst graphic overlaid on the image.

