

# MELT-BLOWN CARTRIDGE

*FILTRATION  
SEPARATION  
SOLUTIONS*



**FEATURE**





## TECHNICAL DATA

Feature-Tec uses different types of materials for filter cartridges to meet filtration rate from 0.01 micron to 200 micron. We can also provide a variety of filter cartridge connection codes to meet the requirements of different filtration. Single open cartridges (Picture 1, 2, 3, 4, 5, 6, 8). They eliminate the possibility of bypass at one end and ensure higher filtration rate. Pleated membrane cartridge, super dirt holding cartridge and sintered metal mesh cartridge are single open ended. Double open cartridges ( picture 7) are used in general filtration requirements. String wound cartridge and melt blown cartridge are generally double open ended.

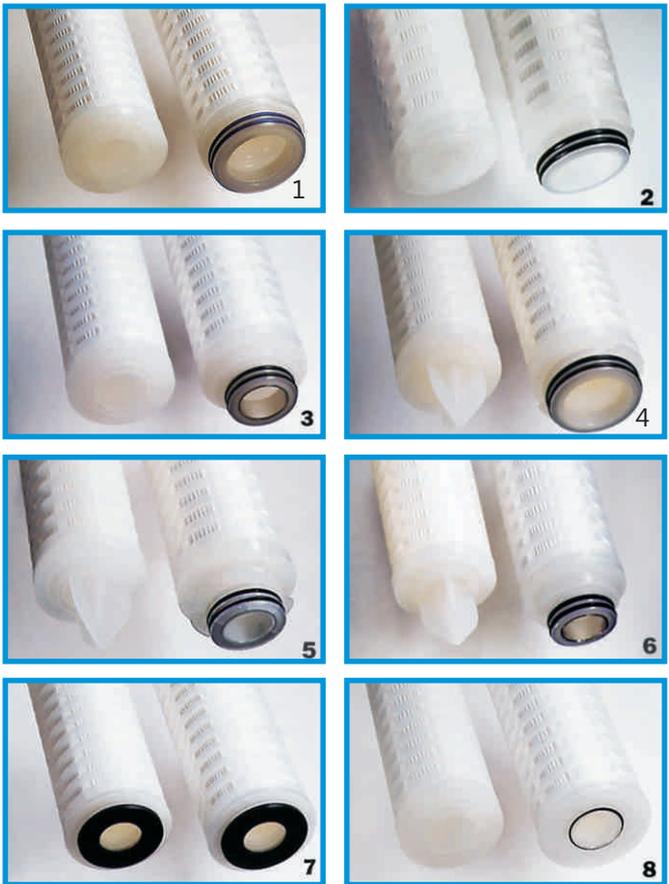
### Length:

- 10" (254 mm)
- 20" (508 mm)
- 30" (762 mm)
- 40" (1016 mm)

### Seal Media:

- B-Buna N
- V-Viton
- T-PTFE
- S-Silastic
- E-EPDM

- 1-Integrated flat metal gasket
- 2-226 / flat end cap
- 3-222 / flat end cap
- 4-226 / fin end
- 5-222 / metal strengthened ring/fin end
- 6-222 / fin end
- 7-DOE/ double open ended
- 8-SOE/ flat gasket 020



Code	Material	Inner diameter (mm)	Outer diameter (mm)	0.04	0.05	0.1	0.2	0.45	0.5	0.65	1	1.2	3	5	10	20	25	50	75	100	150	Core
FCP II	100% Pure PP	28	63						●	●	●	●	●	●			●	●	●	●		
FCP	100% Pure PP	28	63						●	●	●	●	●	●			●	●	●	●		
FBM	100% Pure PP	28	63								●		●	●			●	●	●	●	●	
FCN	Nylon Fiber	28	63								●		●	●			●	●	●	●		
FCE	Polyester	28	63								●		●	●			●	●	●	●		

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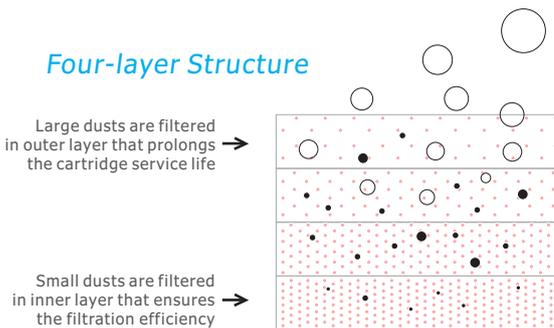
# High Capacity Melt-blown Cartridge



## Profile

High Capacity Melt-blown Cartridge is made by four different pore diameter fibres. The four-layer structure PP depth cartridge functioned with fine fibers in inner layer and coarse fibers in outer layer, which constitutes four different pore diameters, in order to filter particles in different layer. This design has high contaminant holding capacity. Therefore, the filter has a longer service life and lower pressure drop.

## Four-layer Structure



DP max: 60°C: 1.8 kg/cm<sup>2</sup>  
 20°C: 3.2 kg/cm<sup>2</sup>  
 DP (replacement): 1.5kg/cm<sup>2</sup>  
 Temperature max: 60°C  
 D (outside):63mm ; D(inside):28mm

## Applications

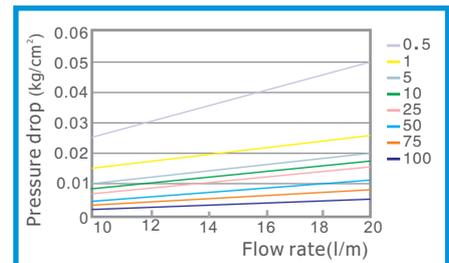
- Pre-filtration recycled water
- Electrophoretic paint
- Fixative
- Lower viscosity
- Coolant
- Edible oil
- Electroplate solution

## Specification Code

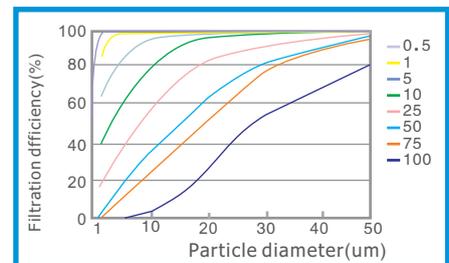
FCP II	10	7	U	1	N
FCP II- Four layer melt-blown	Length: 10-10" 20-20" 30-30" 40-40"	Connection Code: 7	Seal media: U-none	Micron(um): 0.5 25 1 50 3 75 5 100 10	Center core: Y-PP N-None

## Characteristics

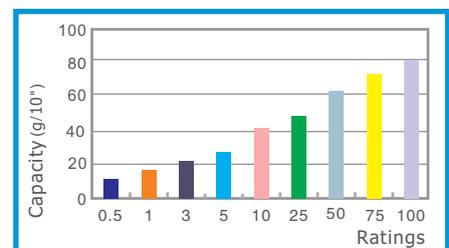
- Four layers structure, high dirt holding capacity, long service life;
- 100% PP for compatibility with a wide range of process fluids;
- Micro-Denier melt-blown filtration fiber, high removal ratings;
- Formed by thermal bond without any binders and adhesives;
- Certified by NSF42 & FDA CFR Title 21.



Initial pressure drop



Filtration efficiency



Capacity of dust

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# High-Strength Melt-blown Cartridge



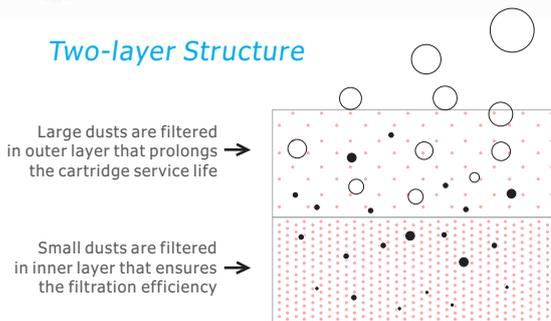
## Profile

High Intensity Melt-blown Cartridge is a two-layer structure cartridge with fine fibers in inner layer and coarse fiber in outer layer, in this way, it can filter different diameter of dust in different layer. This design has high contaminant holding capacity. Therefore, the filter will have a longer service life and lower pressure drop.

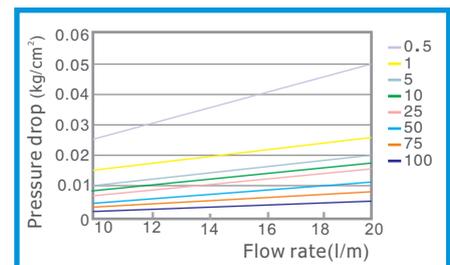
## Characteristics

- Double layer structure, high dirt hold capacity, long 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 & FDA CFR Title 21.

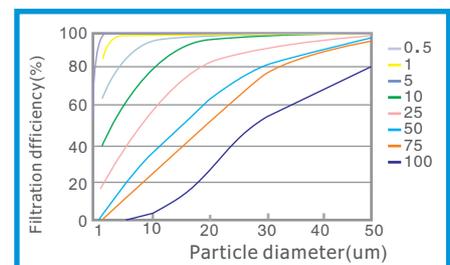
### Two-layer Structure



DP max: 85°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>  
 DP (replacement): 2.1kg/cm<sup>2</sup> (recommend)  
 Temperature max: 80°C  
 D (outside):63mm; D(inside):28mm



Initial pressure drop



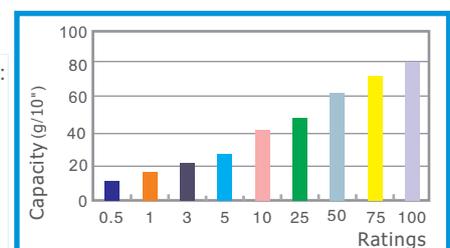
Filtration efficiency

## Applications

- Pre-filtration recycled water
- Electrophoretic paint
- Fixative
- Lower viscosity solution
- Coolant
- Edible oil
- Electroplate solution

## Specification Code

FCP	10	7	B	1	N
FCP- Double layer melt-blown	Length: 10-10" 20-20" 30-30" 40-40"	Connection Code: 3、4、 6、7	Seal media: B-Buna N V-Viton S-Silicone E-EPDM U-none	Micron(um): 0.5 25 1 50 3 75 5 100 10	Center core: Y-PP N-None



Capacity of dust

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# Absolute Precision Melt-blown Cartridge



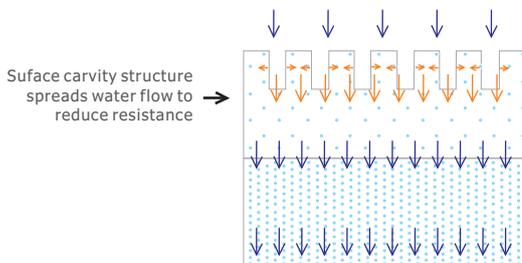
## Profile

We have improved our melt-blown technology to meet the market requirements for a pure polypropylene depth filter with exceptional dirt-holding capability and performance. We recommend "Super-Plus", or our surface groove technology which provides exceptional value for industry applications where long-life, Low pressure drop and high efficiency filtration is required.

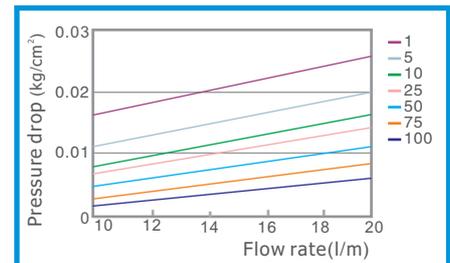
## Characteristics

- Absolute rating from 1 to 100 micron;
- Surface groove structure spreads water flow to reduce resistance
- Strengthened surface fiber structure: no fiber migration
- Gradient filtration structure: increase dirt hold capacity 100% PP melt-blown, good anti-chemical characteristic

### Two-layer Structure



DP max: 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>  
 DP (replacement): 2.1kg/cm<sup>2</sup>  
 Temperature max: 95°C  
 D (outside):63mm ; D(inside):28mm



## Applications

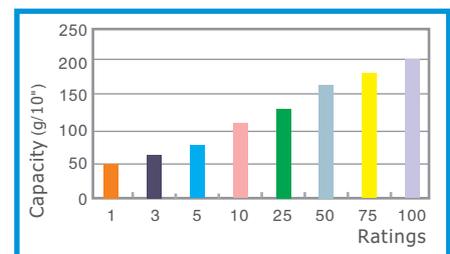
- Pre-filtration ● Recycled water
- Fixative ● Lower viscosity solution ● Coolant
- Spray-paint ● Electrophoretic paint

Product filtration rate	Filtration efficiency(%)							
	1	3	5	10	25	50	75	100um
1	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
3	89.3	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
5	75.9	91.2	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
10	63.8	87.3	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
25		69.9	92.8	>99.9	>99.9	>99.9	>99.9	>99.9
50			58.1	74.9	>99.9	>99.9	>99.9	>99.9
75				63.9	90.5	>99.9	>99.9	>99.9
100					60.1	87.4	>89.9	>99.9

Filtration efficiency

## Specification Code

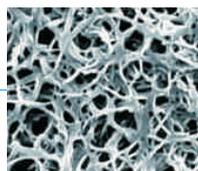
FBM	10	7	B	1	N
FBM- Absolute Precision Melt-blown	Length: 10-10" 20-20" 30-30" 40-40"	Connection Code: 3, 4, 6, 7	Seal media: B-Buna N V-Viton S-Silicone E-EPDM U-none	Micron(um): 1 50 3 75 5 100 10 150 25	Center core: Y-PP N-None



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# Nylon Melt-blown Cartridge



## Profile

Feature-Tec developed the Nylon melt-blown cartridge which is suitable for high temperature and special solvent that PP cartridge can not. The use of nylon media gives excellent compatibility with most solvents, hydrocarbons and aromatics- This product is therefore ideally suited to be used in the petrochemical and fine chemical industries. In addition, it has useful features such as true gradient depth filtration, extremely low pressure losses, high removal ratings and high void volumes; All of which make Nylon melt-blown cartridge the ideal choice for many filtration applications.

## Characteristics

- Micro-denier melt-blown Nylon fiber for high filtration efficiency and low pressure drop.
- Graded density structure for maximum dirt holding capacity.
- 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.

Maximum operating pressure drop:

1~25 micron 2.5kg/cm<sup>2</sup>

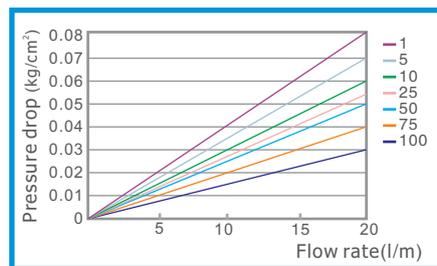
50~100 micron 1.0kg/cm<sup>2</sup>

Maximum operating temperature: 125°C

D (outside):63mm ; D (inside):28mm

## Applications

- Clarify kerosene, gasoline and diesel
- Spray paint filter impurities
- Solvent filtration
- Vapor degreasing
- LPG



Initial pressure drop

## Specification Code

FCN	10	7	B	1	N
FCN- Nylon depth melt-blown	Length: 10-10" 20-20" 30-30" 40-40"	Connection Code: 3, 4, 6, 7	Seal media: B-Buna N V-Viton S-Silicone E-EPDM U-none	Micron(um): 1 50 5 75 10 100 25	Center core: Y-Nylon N-None

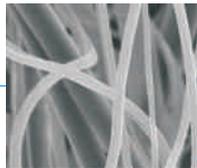
Product filtration rate	Filtration efficiency(%)	
1	2um	90%
5	5um	90%
10	10um	90%
25	25um	90%
50	50um	90%
75	75um	90%
100	100um	90%

Filtration efficiency

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# Polyester Melt - blown Cartridge



## Profile

The FCE series polyester melt-blown cartridge has characteristic that polypropylene cartridges can't replac, like high temperature and petroleum chemical solvent filtration . In addition, it has the benefits as true gradient depth filtration, extremely low pressure loss, high removal ratings and high void volumes, all these make the polyester product the best choice for many major filter users.

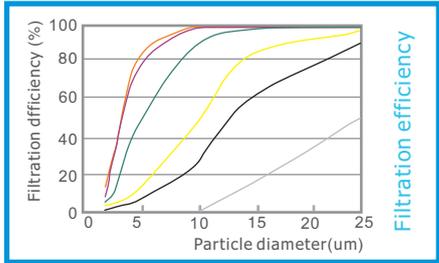
## Characteristics

- 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.

Maximum operating pressure drop:  
 20°C 4.2kg/cm  
 Maximum operating temperature: 120°C  
 D (outside):63mm ; D (inside):28mm

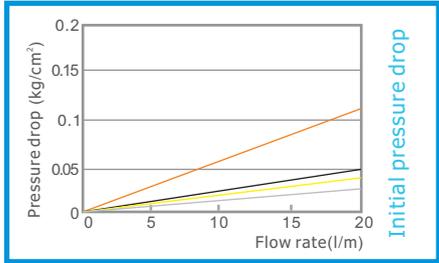
## Applications

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



## Specification Code

FCE	10	7	B	1	N
FCE- Polyester depth melt-blown	Length: 10-10" 20-20" 30-30" 40-40"	Connection Code: 3, 4, 6, 7	Seal media: B-Buna N V-Viton S-Silicone E-EPDM U-none	Micron(um): 1 50 5 75 10 100 25	Center core: Y-Nylon N-None



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## Sales Network



## Agent



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