

Hall Pyke



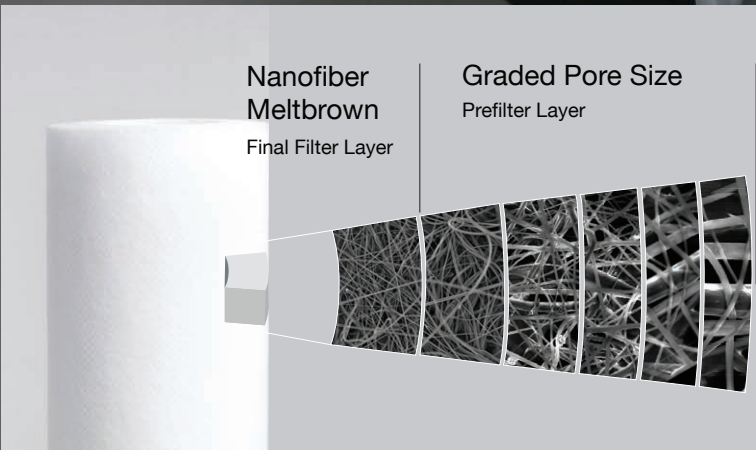
Depth Pre Filtration

**Meltgradient High
Efficiency Depth Filter**

The SMART choice for filtration

Meltgradient™ High-efficiency Depth Filter

Melt-Blown Cartridge with Absolute Filtration Rate



Microbiological Stability

Meltgradient series is the PP melt-blown cartridge with the absolute filtration rate. It adopts the reasonable gradient pores configuration, cooperating with the structure of "deep". The cartridge is capable of efficiently capturing particles of different sizes, and its flow rate and life are not inferior to the pleated cartridge. Polypropylene raw material that meets FDA requirements, with extensive chemical compatibility, suitable for filtering inks, coatings, solvents, deionized water, etc.

Features and Benefits

- Particle interception efficiency is up to 99.9%. For the structure with gradient pores, the inner layer is interwoven with high density nano-fibers.
- Long service life, high flow rate. Due to the polypropylene fiber with different linear diameters and unique interwoven density control process, Meltgradient™ has a porosity far beyond that of similar products, which means lower pressure loss across the cartridge and higher dirty holding capacity.
- High purity. Using long fiber fusion and spray process, continuous fiber hot melt interweave into rich and stable pore structure. No adhesive or surfactant, no silicone oil, low precipitate;
- Extensive chemical compatibility. Fully polypropylene structure, complete series with reinforced center bar and optional external frame/end cover, the 68MBCY type . The cartridge can withstand the pressure difference of 4Bar and avoid short circuit of material caused by deformation of cartridge core when using.
- Wide range of optional filtration rate. It is available from 0.3um to 120 um, which meets various operating conditions.

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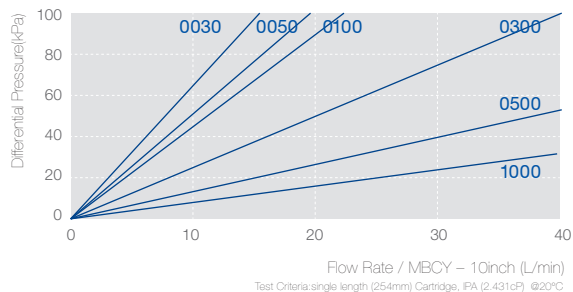
Application

- Printing Ink, Inkjet Ink, Dyestuffs
- Automotive Paints, Hard Coatings
- Monomer, polymers, solvent
- D.I. water prefiltration and post filtration, R.O. water prefiltratio, makeup water

Materials of Construction

Filter Medium	Polypropylene
Core/Cage/End Caps	Polypropylene
O-Rings	Refer to ordering information
O.D. (mm)	2.51" (64mm)
I.D. (mm)	1.10" (28mm)

10" MBCY Flow Rate Characteristic



Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	4 bar / 21°C

Filtration Efficiency

Particle Size MBCY (µm)	0.3	0.5	1.0	3.0	5.0	10	15	30
≥0.5µm	99.99%	99.98%	95.73%	\	\	\	\	\
≥1.0µm	100.0%	100.0%	99.98%	\	\	\	\	\
≥2.0µm	100.0%	100.0%	100.0%	99.0%	97.3%	\	\	\
≥3.0µm	100.0%	100.0%	100.0%	99.8%	98.3%	\	\	\
≥5.0µm	100.0%	100.0%	100.0%	100.0%	99.9%	89.1%	\	\
≥8.0µm	100.0%	100.0%	100.0%	100.0%	100.0%	99.2%	90.6%	\
≥10.0µm	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	99.0%	\
≥12.0µm	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	86.5%
≥25.0µm	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	93.6%
≥35.0µm	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%
≥50.0µm	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
≥70.0µm	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
≥90.0µm	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Ordering Information

	Removal	End Cap	Core Material	Nominal Length	Seal Material	
MBCY	0010=0.1µm	DOE =Double Open End	P =Polypropylene	05 =5"	S =Silicone	- 28C
68MBCY	0020=0.2µm	TC =222/Flat Cap		10 =10"	E =EPDM	
	0030=0.3µm	TF =222/Fin Cap		20 =20"	V =Viton	
	0050=0.5µm	SF =226/Fin Cap		30 =30"	P =PFA	
	0100=1.0µm	SC =226/Flat Cap		40 =40"	N =None	
	0300=3.0µm	N = No Gasket				
	0500=5.0µm	H = PE Gasket				
	0600=6.0µm					
	0700=7.0µm					
	1000 =10µm					
	2000 =20µm					
	3000 =30µm					
	4000 =40µm					
	7000 =70µm					
	9000 =90µm					

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