



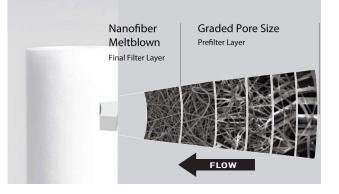
Melt-blown polypropylene filters with inner layer of interwoven high-density nano-fibers. Ideal for filtering inks, coatings, solvents, water, etc.

# MELTGRADIENT<sup>™</sup> DEPTH FILTER

### POLYPROPYLENE MICROFIBER FOR FINAL FILTRATION OF PIGMENT-BASED INKS, CERAMIC INKS, AND DISPERSE INK JET INKS

Meltgradient<sup>™</sup> Series Depth Filters are made of melt-blown polypropylene with gradient pores and an inner layer of interwoven high-density nano-fibers. The cartridge is capable of efficiently capturing particles of different sizes with a great flow rate and lifetime. The polypropylene raw material meets FDA requirements with extensive chemical compatibility, suitable for filtering inks, coatings, solvents, water, etc.

FEATURE	BENEFIT			
Melt-blown polypropylene media with gradient pores and inner layer of interwoven high-density nano-fibers	Provides high contaminant hold capacity and high removal efficiency at low pressure drop			
	>99.9% particle retention efficiency at rated pore size			
	Long service life, high flow rate due to the different linear diameters and unique interwoven density control process. Meltgradient has a porosity far beyond that of similar products, which results in lower pressure loss across the cartridge and higher contaminant-holding capacity.			
	Long fiber fusion and spray process with continuous fiber hot-melt interweave results in a rich and stable pore structure and high-purity filtration. No adhesive or surfactant, no silicone oil, low precipitate.			
	All polypropylene construction provides excellent chemical compatibility. Fully polypropylene structure with reinforced center bar and optional external frame/end cover. Ruggedly constructed, the cartridge can withstand up to 4 bar differential pressure without core deformation.			
	Wide range of filtration rates from 0.3 µm to 120 µm to meet various operation conditions.			
Quality Assurance	Manufactured in a facility which adheres to ISO 9001 Practices. 100% Integrity tested and lot traceable.			
Particle shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals.			
Non-fiber release	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR210.3 (b) (6).			



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#### **Typical Applications**

- Pigment Inks
- Dye-based Inks
- UV Inks
- Ceramic Inks
- Disperse Inks

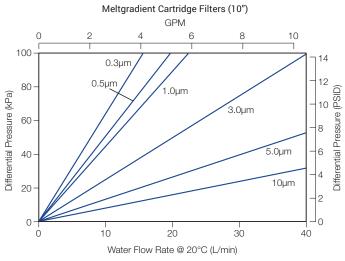
#### **SPECIFICATIONS**

Filter media	Polypropylene (melt-blown) with interwoven high-density nano-fiber inner layer					
Support layer	Polypropylene					
Core/cage/end caps	Polypropylene					
Seal	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM, PE					
Diameter	O.D.: 2.51" (64 mm) I.D.: 1.10" (28 mm)					
Max. operating temperature	80°C					
Max. differential pressure	0.40 MPa (4.0 bar, 58 psi) at 21°C					

#### RETENTION

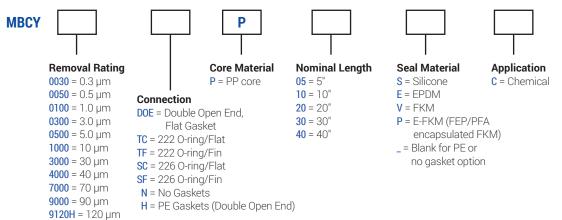
Particle Range	Filter Code									
	<mark>0030</mark> (0.3 μm)	<mark>0050</mark> (0.5 μm)	<mark>0100</mark> (1.0 μm)	<mark>0300</mark> (3.0 μm)	<mark>0500</mark> (5.0 μm)	<b>1000</b> (10 μm)	<b>1500</b> (15 μm)	<mark>3000</mark> (30 μm)		
≥0.3 µm	99.97%	99.89%	-	-	-					
≥0.5 µm	99.99%	99.98%	95.73%	-	-	-	-	-		
≥1.0 µm	100%	100%	99.98%	-	-	-	-	-		
≥2.0 µm	100%	100%	100%	99.0%	97.3%	-	-	-		
≥3.0 µm	100%	100%	100%	99.8%	98.3%	-	-	-		
≥5.0 µm	100%	100%	100%	100%	99.9%	89.1%	-	-		
≥8.0 µm	100%	100%	100%	100%	100%	99.2%	90.6%	_		
≥10 µm	100%	100%	100%	100%	100%	99.9%	99.0%	_		
≥12 µm	100%	100%	100%	100%	100%	100%	99.8%	86.5%		
≥25 µm	100%	100%	100%	100%	100%	100%	100%	93.6%		
≥35 µm	100%	100%	100%	100%	100%	100%	100%	99.9%		
≥50 µm	100%	100%	100%	100%	100%	100%	100%	100%		
≥70 µm	100%	100%	100%	100%	100%	100%	100%	100%		
≥90 µm	100%	100%	100%	100%	100%	100%	100%	100%		

**FLOW RATES** 



#### **ORDERING INFORMATION**

EXAMPLE: MBYC0100TFP10EC = 1.0 µm, 222/Fin, 10" length filter with EPDM seals



## BannerIndustries

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