



## Melt Blown Filtration Technology



Cartridge micron rating is nominal. Data is representative of typical filter performance, on initial startup, using ISO 12103-A2 fine test dust.

Purity Plus cartridges are manufactured on state of the art production equipment using a computer controlled process to ensure reliability and performance. Molten polypropylene is extruded into a high velocity air stream. The semi-molten fibers are collected and cooled on our patented takeoff system.

Gradient depth filtration is achieved with our technically advanced design. The innermost fibers form a tight self-supporting structure, which eliminates the need for a separate center core and provides exceptional strength.

As a depth filter, Purity Plus sediment cartridges trap particles throughout the entire cross section of the filter. Larger particles are trapped on or near the surface of the filter and the smaller particles are trapped throughout the inner layers of the cartridge. The gradient density design allows for optimum dirt holding capacity and minimal change-outs.

Purity Plus melt blown filter cartridges are made of polypropylene resin meeting FDA regulation 21CFR177.1520. No binders, lubricants or antistatic agents are used in our manufacturing process. Purity Plus melt blown polypropylene filters have been tested and certified under NSF/ANSI Standard 42. The inert polypropylene resin provides exceptional chemical compatibility to handle a wide range of process fluids.

Purity Plus cartridges are designed for knife-edge seal housings to provide a positive seal without the use of end caps or gaskets. Purity Plus cartridges are interchangeable with most standard pleated, string wound and other melt blown cartridges.

Purity Plus cartridges are designed to provide high flow rates with minimum pressure drop. Flow rates of up to 5 gpm (19 LPM) per 10" length are recommended and should not exceed 10 gpm (38 LPM) per 10" length for optimal efficiency. The maximum operating temperature is 125°F (52°C).

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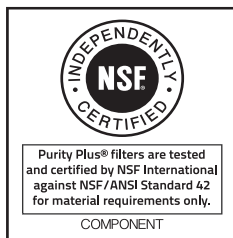


Purity Plus filters are available in 1, 5, 25 and 50 micron ratings and will fit most standard filter housings. Standard filter lengths of 9 7/8", 20", 30", 40" and 50" are available. Cartridges are individually shrink wrapped and labeled. Purity Plus sediment filters have the micron rating **embossed** on the side of every cartridge for easy identification.

## BB 4.5 inch - Dual gradient Sediment Filters

Dual gradient depth filtration is achieved with our technically advanced die system. This design allows us to create two distinct filter zones. Larger particles are trapped and filtered out in the outer zone and the smaller particles are trapped in the inner zone. The tighter matrix of the inner zone also provides exceptional strength and functions as a self-supporting core, eliminating the need for a separate center core. The dual gradient design allows for optimum dirt holding capacity and minimal change-outs.

Purity Plus dual gradient sediment filters are made of polypropylene resin meeting FDA regulation 21CFR177.1520. No binders, lubricants or anti-static agents are used in our manufacturing process. Purity Plus melt blown sediment filters have been tested and certified under NSF/ANSI Standard 42 for material requirements only. The inert polypropylene resin provides exceptional chemical compatibility to handle a wide range of process fluids.



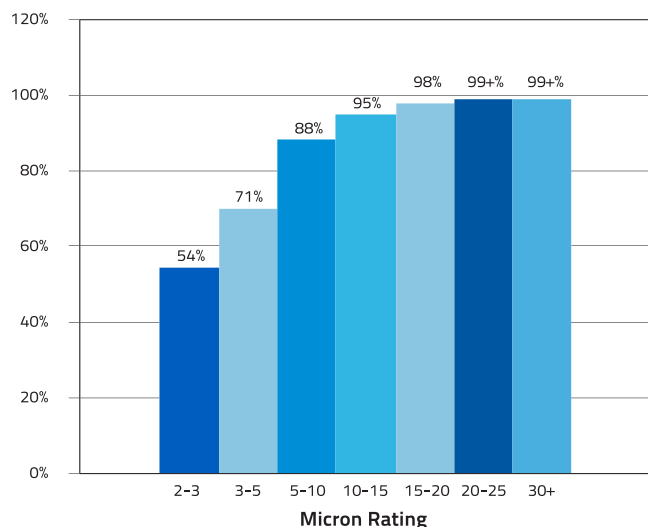
Purity Plus dual gradient filters are available in 25/01, 25/05 and 50/25 micron ratings and will fit most standard Big Blue® and Big Clear filter housings.

Purity Plus filters are tested and certified by NSF International against NSF/ANSI Standard 42.

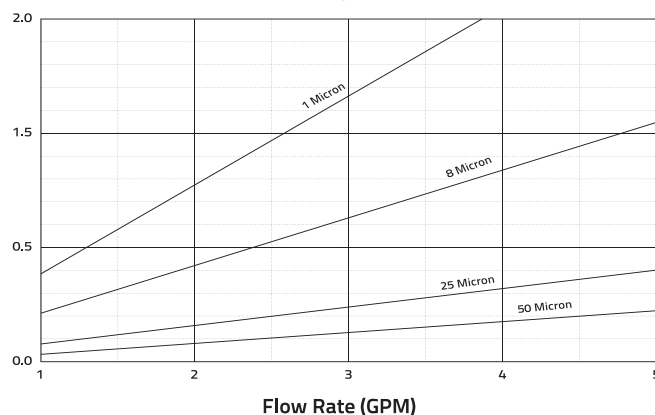
Specialty lengths, diameters, micron ratings and private labeling are available. Please contact our Sales Department for further information.

Purity Plus filters are tested and certified by NSF International against NSF/ANSI Standard 42 for material requirements only.

Removal Efficiency of Purity Plus 5 Micron Melt Blown Filter



Purity Plus 9 7/8" Sediment Filter Pressure Drop vs. Flow Rate



Model No.	Standard Filter Length	Filter I.D.	Filter O.D.	# of Cartridges Per Carton	# of Cartridges Per Pallet	Nominal Micron Ratings*
PP-X-10	9 7/8" (25.1 cm)	1 1/16" (2.7cm)	2 1/2" (6.4 cm)	24	1512	1, 5, 25, 50
PP-X-20	20" (50.8 cm)	1 1/16" (2.7cm)	2 1/2" (6.4 cm)	25	900	1, 5, 25, 50
PP-X-30	30" (76.2 cm)	1 1/16" (2.7cm)	2 1/2" (6.4 cm)	15	480	1, 5, 25, 50
PP-X-40	40" (101.6 cm)	1 1/16" (2.7cm)	2 1/2" (6.4 cm)	15	360	1, 5, 25, 50
PP-X-50	50" (127.0 cm)	1 1/16" (2.7cm)	2 1/2" (6.4 cm)	15	240	1, 5, 25, 50
PP-X-10BB	9 7/8" (25.1 cm)	1 1/16" (2.7 cm)	4.5" (11.43 cm)	8	560	25/01, 25/05, 50/25
PP-X-20BB	20" (50.8 cm)	1 1/16" (2.7 cm)	4.5" (11.43 cm)	6	264	25/01, 25/05, 50/25

\* (X) Micron rating is nominal. Installation and housing design can affect performance. Purity Plus melt blown polypropylene filters are designed for sediment reduction from potable water. These filters will not remove cysts, bacteria or viruses.

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