Water Technologies & Solutions
fact sheet

Purtrex*

Melt blown depth filter for general industrial use

Features and Benefits

- Exceptional value for general applications
- Progressive graded density captures particles throughout the entire filter
- Long life and lower change-out frequency
- Exceptional dirt holding capacity
- Pure polypropylene construction
- No wetting agents, solvents, antistatic agents, or binders
- Made with 90% to 100% pre-consumer recycled polypropylene material to reduce landfill waste
- Meets FDA requirements for food and beverage contact
- Made in the USA

Applications

- General industrial use
- Potable water filtration
- Chemical filtration
- Plating baths
- Amine filtration

Specifications

Table 1: Specifications and performance information

Ratings		1, 3, 5, 10, 20, 30, 50, 75 microns (nominal)
Inner Diameter (nominal)		1 in (2.5 cm)
Outer Diameter		2.5 in (6.4 cm)
Lengths		
	9 3/4 in (24.8 cm)	29 1/4 in (74.3 cm)
	10 in (25.4 cm)	30 in (76.2 cm)
	19 1/2 in (49.5 cm)	40 in (101.6 cm)
	20 in (50.8 cm)	50 in (152.4 cm)
	Longer lengths up to 70 in may be available upon request	
Materials of Construction		
	Filter Media	Polypropylene
	Adapters	Polypropylene
	Elastomer	Buna, EPDM, Silicone, Viton[1], Santoprene[2] (flat gasket only)
Performance Conditions		
Maximum pressure drop:		35 psid (2.4 bar) @ 100°F (38°C)
Recommended change-out pressure drop:		20 psid (1.4 bar) @ 77°F (25°C)

Efficiency Information

Table 2: Removal efficiency based on a modified ASTM 795 test procedure

Micron Rating	Removal rating (µm) at various efficiencies		
	90.0%	99.0%	99.9%
1 µm	*Efficiency of nominal filters varies by application. See note for information on nominal filter efficiency[3]*		
3 µm			
5 µm			
10 µm			
20+ µm			

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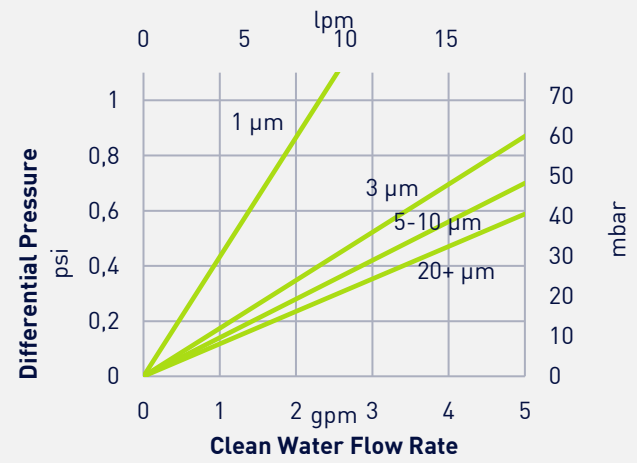

Graph 1: Purtrex clean water flow rate based on a 10 in length filter

Quality

Purtrex filters are manufactured under a quality management system that has been certified to meet ISO 9001 standards. Each filter is assigned a lot code to ensure traceability of the data and materials used in the manufacturing process.

Certifications

- U.S. FDA 21CFR 177.1520 food contact requirements
- Article 3 of the EU Framework Regulation No. 1935/2004/EC safety requirements
- EU Plastics Regulation No. 10/2011 (may be used as intended in compliant EU Member states)
- USP class VI-121°C Plastics criteria
- NSF 42 and 61 criteria
- ISO 9001 criteria

SUEZ filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your SUEZ representative for more information.

Ordering Information

Replace the numbers with your desired values from each column. Columns 3, 4, and 5 are optional depending on the desired configuration. Use "-B" if you would like bulk packaging.

Example: PX 05-40-EHB

PX	1	-	2	-	3	4	5	-	B

Table 3: Ordering information

	1	2	3	4	5
Type	**Micron Rating (nominal)**	**Cartridge Length**	**End #1 Adapter**	**End #2 Adapter**	**Elastomer Material**
PX	01 = 1 µm 03 = 3 µm 05 = 5 µm 10 = 10 µm 20 = 20 µm 30 = 30 µm 50 = 50 µm 75 = 75 µm	9 3/4 in (24.8 cm) 10 in (25.4 cm) 19 1/2 in (49.5 cm) 20 in (50.8 cm) 29 1/4 in (74.3 cm) 30 in (76.2 cm) 40 in (101.6 cm) 50 in (152.4 cm) *Longer lengths up to 70 in may be available upon request*	 E = 222 O-Ring  L = Extended Core  X = Standard Plain End (no gasket)  Y = Flat Gasket	 H = Fin  K = Self Seal Spring  S = Solid End  Y = Flat gasket	B = Buna E = EPDM P = Santoprene[2] (flat gasket only) S = Silicone V = Viton[1]

[1]Viton is a registered mark of The Chemours Company.
[2]Santoprene is licensed to Advanced Elastomer Systems, L.P.
[3]Absolute-rated filters have been designed and tested to reject at least 99% of particles of the listed micron size. Nominal-rated filters have a wider distribution of pore sizes and therefore a wider distribution of rejected particle sizes. The nominal rating is primarily used to compare efficiencies across a filter family and between filter manufacturers. Efficiency is dependent on particle shape, size, composition, application, and testing protocol.