



# Stratum™ C Series Filter Cartridges

## High Performance Filters

### Product Specifications

**Media:** Polypropylene

**End caps/Center Core:** Polypropylene

**Gaskets/O-Rings:**

Buna-N, EPDM, Santoprene, Silicone, Teflon  
Encapsulated Viton (O-Rings only), Viton

**Micron rating:** 0.5, 1, 3, 5, 10, 20, 50, 75 µm

### Dimensions

**Nominal lengths:**

5", 9.75", 10", 19.5", 20", 29.25", 30", 39", 40"  
(12.7, 24.8, 25.4, 49.5, 50.8, 74.3, 76.2,  
99.1, 101.6 cm)

**Outside diameter:** 2.5" (6.35 cm), 2.63" (6.7 cm)

End capped

**Inside diameter:** 1.0" (2.54 cm)

### Operating Parameters

**Maximum differential pressure:**

150 psid @ 68°F (10.3 bar @ 20°C)

90 psid @ 150°F (6.2 bar @ 66°C)

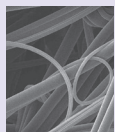
35 psid @ 176°F (2.4 bar @ 80°C)

**Recommended change-out pressure:**

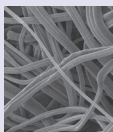
35 psid (2.4 bar)

**Steam Sterilization:**

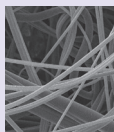
Stratum single open end style filters may be autoclaved under no end load conditions for 30 minutes at 121°C. Filters should be cooled to normal operating temperatures prior to use.



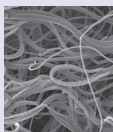
Outer pre-filter zone



Inner pre-filter zone



Final pre-filter zone



Final filtration zone

For critical customer applications requiring precise and repeatable depth filtration, the Graver Stratum C series melt blown filters deliver exceptional performance. With a multi-zoned construction, true clarifying filtration is achieved with no unloading of captured contaminant.

### FEATURES & BENEFITS

- Multi-zone melt blown depth filter with a true graded pore structure
- Thermally bonded fibers for high void volume and long on-stream life
- Available in precise 90% removal efficiencies from 0.5 to 75 microns
- 100% pure virgin polypropylene
- Molded center core for higher temperature and pressure capability
- Free of surfactants, binders and adhesives

### CERTIFICATIONS

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.
- NSF 61: Certified to NSF/ANSI STD 61 for materials requirements only — Component
- European Directive for Direct Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.

### TYPICAL APPLICATIONS

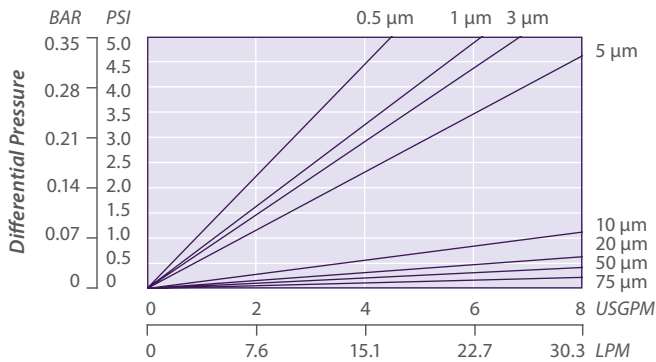
- Chemicals
- Food and beverages
- Plating
- Pharmaceuticals
- Water
- Cosmetics
- Paint/Inks
- Microelectronics

## STRATUM C NOMENCLATURE INFORMATION

Product Series	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring
STC Series	0.5	10	-5	-29.25	P Double Open End (Hard Endcaps)	B Buna-N
	1	20	-9.75	-30	P2 226/Flat Single Open End	E EPDM
	3	50	-10	-39	P3 222/Flat Single Open End	N None
	5	75	-19.5	-40	P6 Self-Seal Spring on One End	S Silicone
					P7 226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
				P8 222/Fin Single Open End	V Viton	
				PX Extended Core		
				N None (Cut Ends)		
				DBG Direct Bond Santoprene Gaskets		
				AM Single Open End, Internal O-Ring		
<b>Example: STC 5-10P3V</b>						
STC	5		-10		P3	V

## STRATUM C FLOW RATE

### Typical Flow Rate Clean Water at Ambient Temperature (per 10" cartridge)



*For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise*



Certified to NSF/ANSI Standard 61 for materials requirements only.

COMPONENT

### FOR MORE INFORMATION

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