



Graver Technologies

FILTRATION | SEPARATION | PURIFICATION



Stratum® A Series Filter Cartridges

Absolute Rated Melt Blown 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:

0.3, 0.5 1, 3, 5, 10, 20, 30, 50, 70, 100 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)

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)

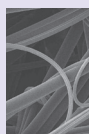
35 psid @ 176°F (2.4 bar @ 80°C)

Recommended change-out pressure:

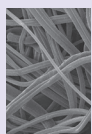
35 psid (2.4 bar)

Steam Sterilization:

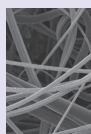
Stratum single open end style filters may be autoclaved under no end load conditions for 30 minutes at 121°C. Filters should be cooled to normal operating temperatures prior to use.



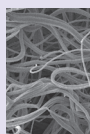
Outer pre-
filter zone



Inner pre-
filter zone



Final pre-
filter zone



Final filtra-
tion zone

Stratum A Series melt blown depth filters deliver 99.9% efficiency at the stated micron for the most demanding applications. By utilizing ultra fine fibers and controlled thermal bonding, the Stratum A series retains captured contaminant even at higher differential pressures.

FEATURES & BENEFITS

- Absolute retention ratings from 0.3 to 100 microns
- Multi-zone melt blown depth filter with a graded pore structure for maximum dirt holding capacity
- Thermally bonded fibers for high void volume and long on-stream life
- Lot traceable filters come with certificate of conformance
- 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

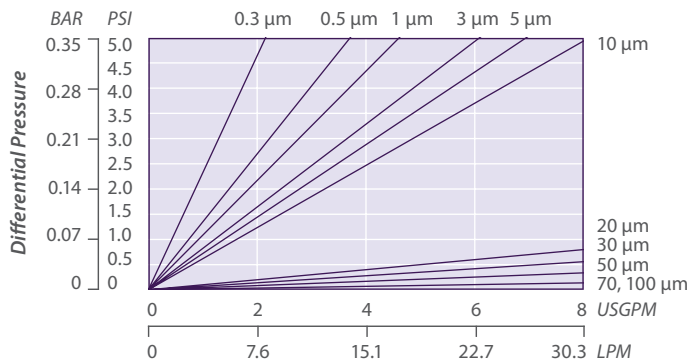
- | | | |
|-------------------|----------------------|--------------|
| • Chemicals | • Food and beverages | • Plating |
| • Pharmaceuticals | • Water | • Cosmetics |
| • Paint/Inks | • Microelectronics | • CMP Slurry |

STRATUM A NOMENCLATURE INFORMATION

Product Series	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring
STA Series	0.3	20	-5	-29.25	P Double Open End (Hard Endcaps)	B Buna-N
	0.5	30	-9.75	-30	P2 226/Flat Single Open End	E EPDM
	1	50	-10	-39	P3 222/Flat Single Open End	N None
	3	70	-19.5	-40	P6 Self-Seal Spring on One End	S Silicone
	5	100	-20		P7 226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
	10				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	
Example: STA 0.5-30NN						
STA	0.5		-30		N	N

STRATUM A 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

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water at 3 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.



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

REMOVAL EFFICIENCY

Beta Ratio Efficiency	Beta 1000 99.9%	Beta 100 99%	Beta 10 90%
0.3 µm	0.5	0.4	0.3
0.5 µm	0.6	0.5	0.4
1 µm	1.0	0.8	0.5
3 µm	3.0	2.3	1.4
5 µm	5.0	4.0	2.7
10 µm	10.0	7.0	4.0
20 µm	20.0	15.0	12.0
30 µm	30.0	20.0	14.0
50 µm	50.0	34.0	25.0
70 µm	70.0	50.0	39.0
100 µm	100.0	85.0	60.0

$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

FOR MORE INFORMATION

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