



Graver Technologies

Filtration | Separation | Purification

Stratum™ A Series Melt Blown Filter Cartridges

Absolute Rated Melt Blown Filters

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.

Stratum Series Features - Benefits

- Absolute retention ratings from 0.5 to 70 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% polypropylene – FDA listed materials of construction
- All components meet USP Class VI criteria and are safe for use in pharmaceutical applications
- Molded center core for higher temperature and pressure capability
- Free of surfactants, binders and adhesives

Filter Specifications

| | |
|-----------------------|--|
| Media: | Polypropylene |
| End caps/center core: | Polypropylene |
| Gaskets/O-rings: | Silicone, EPDM, Buna N, Santoprene, Viton and Teflon encapsulated Viton (o-rings only) |
| Micron ratings: | 0.5, 1, 3, 5, 10, 20, 30, 50, 70 |

Dimensions

| | |
|-------------------|---|
| Nominal lengths: | 4, 5, 9.75, 10, 19.5, 20, 29.25, 30, 39, 40 inches (10.2, 12.7, 24.8, 25.4, 49.5, 50.8, 74.3, 76.2, 99.1, 101.6 cm) |
| Outside diameter: | 2.5 in (6.35 cm) |
| Inside diameter: | 1 in (2.54 cm) |

Operating Conditions

| | |
|--|---|
| 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 changeout differential pressure: | 35psid (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. |



Applications

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

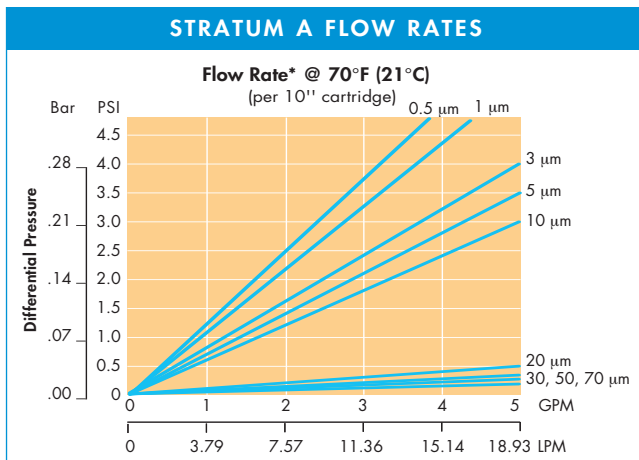
Filter Removal Efficiency

| Micron Rating Beta Ratio | 99.9% Beta 1000 | 99% Beta 100 | 90% Beta 10 |
|-----------------------------|--------------------|-----------------|----------------|
| 0.5 micron | 0.6 | 0.5 | 0.4 |
| 1 micron | 1.0 | .8 | .5 |
| 3 micron | 3 | 2.3 | 1.4 |
| 5 micron | 5 | 4.0 | 2.7 |
| 10 micron | 10 | 7 | 4 |
| 20 micron | 20 | 15 | 12 |
| 30 micron | 30 | 20 | 14 |
| 50 micron | 50 | 34 | 25 |
| 70 micron | 70 | 50 | 39 |

Stratum A Series Nomenclature Information

| STA | 0.5 | -30 | N | N |
|------------------------|--|---|--|--|
| Product Series | Retention Rating (microns) | Length (inches) | End Configuration | Gasket or O-Ring |
| STA - Stratum A Series | 0.5 1 3 5 10 20 30 50 70 | 4 5 9.75 10 19.5 20 29.25 30 39 40 | P Double Open End (hard endcaps) P2 226/Flat Single Open End P3 222/Flat Single Open End P6 Self-Seal Spring on One End P7 226/Fin Single Open End P8 222/Fin Single Open End PX Extended Core N None (Cut Ends) DBG Direct Bond Santoprene Gaskets AM Single Open End, Internal O-Ring | S Silicone B Buna-N E EPDM V Viton T Teflon encap. Viton (O-Rings only) N None |

Example: STA 0.5-30NN = Stratum A filter, 0.5 micron, 30 inches, cut ends, No gasket or o-ring



Note: For chemical compatibility, flow rates, and temperature requirements please consult the factory or your local Graver distributor.

For more information

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