

High surface area pleated cartridges with microporous cellulose membrane

Description

OPTI-CLEAR Series pleated cartridges have been developed to meet the critical needs of pharmaceutical, food, beverage and chemical applications. The advanced cellulose membrane incorporated into this filter delivers sharp particle cut-offs and is widely compatible with a broad range of chemicals and pH extremes. The very low protein binding of the membrane ensures that OPTI-CLEAR Series cartridges are suitable in a variety of applications.

OPTI-CLEAR Series cartridges are constructed and assembled in a clean room environment and are 100% traceable. This product is offered in a wide range of configurations to fit most commercially available filter housings.

Benefits

- High surface area filter cartridges constructed of pleated cellulose membranes provide absolute particle retention and long on-stream life cycles.
- 100% polypropylene materials of construction provide wide chemical compatibility in most applications with no leachables or extractables.
- All cartridges are constructed and assembled in a clean room environment to ensure minimal particle contamination.
- Cartridges are sealed using an advanced thermal bonding process to ensure the lowest level of extractables.
- Each cartridge is stamped with product and lot number for identification and 100% traceability.
- Pharmaceutical grade available to meet the stringent needs of biopharmaceutical applications.
- Beverage grade available to meet the high throughput requirements of the beverage industry.



Applications

- Process Water
- Acids, Bases and Oxidants
- Inks and Dyes
- Chemicals
- Fragrances
- Ophthalmics
- Pharmaceuticals
- Beverages
- Wines

Materials of Construction

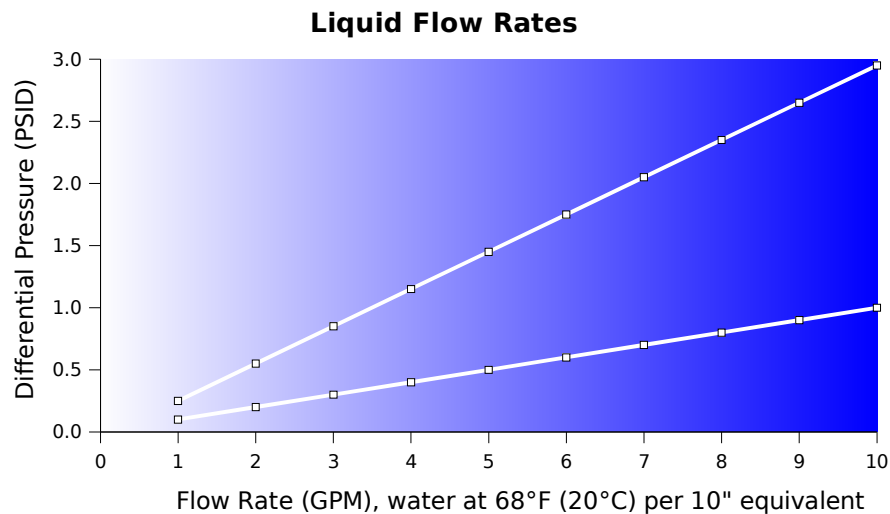
Media	Mixed Ethers of Cellulose
Support Media	Polypropylene
Center Core	Polypropylene
Cage	Polypropylene
End Caps	Polypropylene
Internal Support Ring	Stainless Steel
Gaskets/O-Rings	Ethylene Propylene, Silicone, Neoprene, Buna-N, Viton®, Teflon®
Outside Diameter	2.7" (6.9 cm) (nominal)
Lengths (nominal)	10, 20, 30, 40" (25.4, 50.8, 76.2, 102 cm)

*Vitons and Teflon are registered trademarks of E.I. duPont de Nemours and Company.
OPTI-CLEAR is a trademark of Clarcor, Inc.*

Performance Specifications

Micron Ratings	0.2, 0.45 μ m absolute
Differential Pressure	to 60 psid (4.08 bar) @ 68° F (20° C) to 30 psid (2.04 bar) @ 140° F (60° C)
Sterilization	OPTI-CLEAR cartridges may be autoclaved for 30 minutes at 121° C under no end loading conditions
Toxicity	OPTI-CLEAR Pharmaceutical Series filter media complies with USP XXII standards for Class VI-121 plastics.

Flow Rates vs Differential Pressure



Ordering Information

Cartridge Media Type	Grade	Filter Area	Series	Nominal Length	Cartridge Style	Gasket or O-Ring	Utilization
C	2	A	S	A	3	3	N
C = Cellulose Membrane	002 = 0.2 µm 004 = 0.45 µm	A = 6 FT ²	S = Standard B = Beverage P = Pharmaceutical	A = 10" B = 20" C = 30" D = 40"	2 = DOE 3 = 222/Flat 4 = Internal 020 Ring/Flat 6 = DOE/Internal 120 Ring 6x= SOE/Internal 213 Ring 7 = 226/Fin 7a= 226/Flat 8 = 222/Fin	01 = EPR 02 = Neoprene 03 = Silicone 04 = Buna-N 08 = Viton 09 = Teflon Gasket 11 = Teflon/Viton	N = Non-Steam Sterilizable S = Steam Sterilizable



Opti-Clear Series:
High surface area pleated cartridges with microporous cellulose membrane