

PUROCEPT™ A Series

Absolute Rated, Multi-Zone, Melt Blown Cartridges for Critical Applications

Benefits

- Precision engineered Absolute removal ratings from 1 µm to 30 µm.
- Proprietary PuroZone technology allows the creation of four filtration zones within the depths of the filter.
- Continuous gradient structure provides effective pre-filtration and final filtration.
- Advanced microprocessor controlled manufacturing delivers extremely consistent product performance.
- Polypropylene materials of construction allow use in a wide range of demanding applications.
- Cartridges are binder, adhesive, and surfactant free.
- All polypropylene materials are FDA listed for food and beverage contact, are NSF tested and certified, and meet USP - Class VI criteria for plastics.
- Configurations available to fit most industry standard housings.

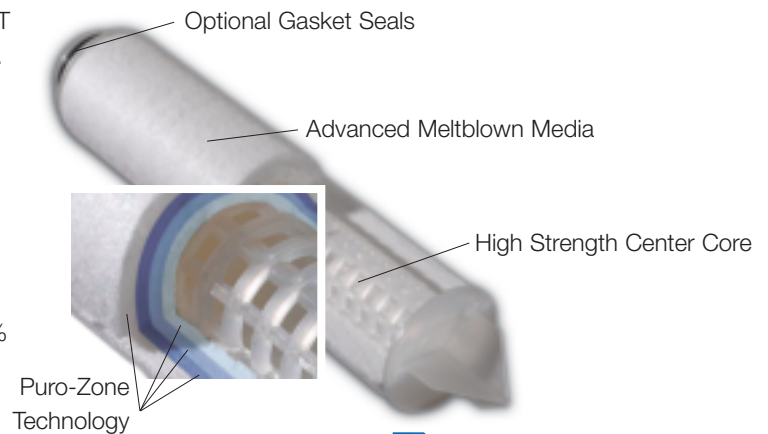


Description

PUROCEPT A Series depth filter cartridges provide absolute rated filtration capability in a wide range of liquid process applications. These high performance filter cartridges are manufactured with proprietary, state-of-the-art, microprocessor controlled equipment that creates a highly consistent product. The polypropylene materials of construction are chemically inert allowing PUROCEPT cartridges to be used in a wide range of demanding applications.

Purolator's proprietary PuroZone technology allows the creation of four zones within the depth of the filter cartridge. Each zone contains a matrix of declining fiber diameters. This multi-zone design produces a gradient pore structure, which effectively captures larger particles in the upstream layers of the filter while efficiently capturing smaller particles in the inner layers. Purolator has optimized each PUROCEPT A filter grade to provide ≥ 99.5% particle removal efficiency and superior mechanical strength.

Innovative Multi-Zone Design



Performance Specifications

Micron Ratings	1, 5, 10, 20, 30 μm
Maximum Forward Differential Pressure	25 psid (1.7 bar) @ 150° F (66° C)
Recommended Change-Out Differential Pressure	35 psid (2.4 bar)
Rinse Up	PUROCEPT Series cartridges rinse up to 18 Megohm-cm with a minimum of throughput.
Autoclaving	Single Open End PUROCEPT cartridges can be autoclaved for 30 minutes at 250° F (121° C) under no end load conditions. The filter cartridges should be allowed to cool to normal system operating temperatures prior to use.
Stream Sterilization Filtration Efficiency	Not recommended. PUROCEPT A Series cartridges are $\geq 99.5\%$ efficient at the stated micron rating.

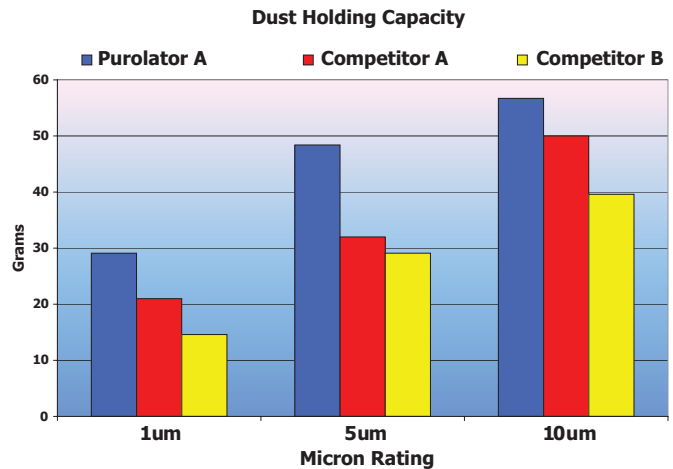
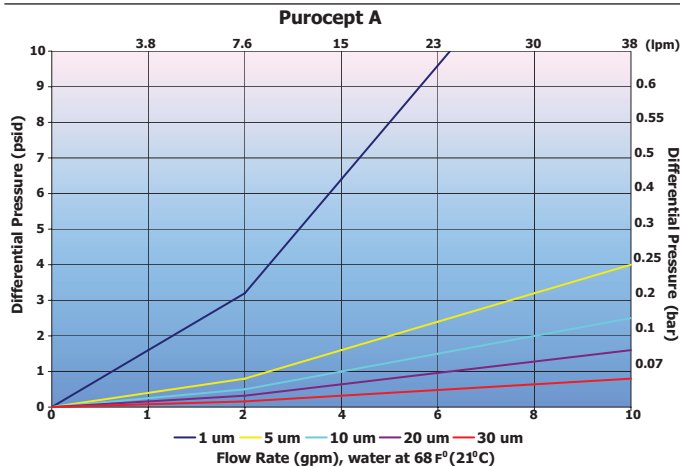
Materials of Construction/Dimensions

Outside Diameter	2.5" (6.4 cm)
Lengths (nominal)	9.75" (24.8 cm), 9.87" (25.1 cm), 10" (25.4 cm), 19.5" (49.5 cm), 19.75" (50.2 cm), 20" (50.8 cm), 29.25" (74.3 cm), 29.75" (75.6 cm), 30" (99.1 cm), 39.5" (100.3 cm), 40" (102 cm)
Biosafety	All components meet FDA requirements Title 21. All polypropylene components meet the specifications of USP Biological Test for Plastics Class VI - 121° C. All products are NSF tested and certified.
Filter Media	Meltblown Polypropylene
Center Core	Polypropylene
End Caps	Polypropylene
Gaskets/O-Rings	Silicone, EPDM, Viton®, Buna-N, Polyethylene**

*Viton® is a registered trademark of E.I. duPont de Nemours and Company
** Available on double open ended cartridges only

PUROCEPT and The Clear Advantage are trademarks of Clarcor, Inc.

Flow Rates vs Differential Pressure



Cartridge Ordering Information

Cartridge Series	Retention Rating	Nominal Length (inches)	Center Core	Cartridge Configuration	Gasket or O-Ring
PCA	1 - *	10	U	F	S
PCA = Purocept A	1, 5, 10, 20, 30 μm	9.75, 9.875, 10, 19.5, 19.75, 20, 29, 29.25, 30, 39, 39.5, 40	U = Polypropylene	No Symbol = DOE G = DOE with Polypropylene D = DOE with Gaskets X = DOE with 1" Extended Core F = 222 O-Ring/Flat S = 222 O-Ring/Spear F7 = 226 O-Ring/Flat S7 = 222 O-Ring/Spear K = Self Sealing Spring - Poly R = Self Sealing Spring - SS	S = Silicone V = Vitons B = Buna-N E = EPDM

* Note: Use a - (dash) between the Retention Rating and the Nominal Length when ordering.

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