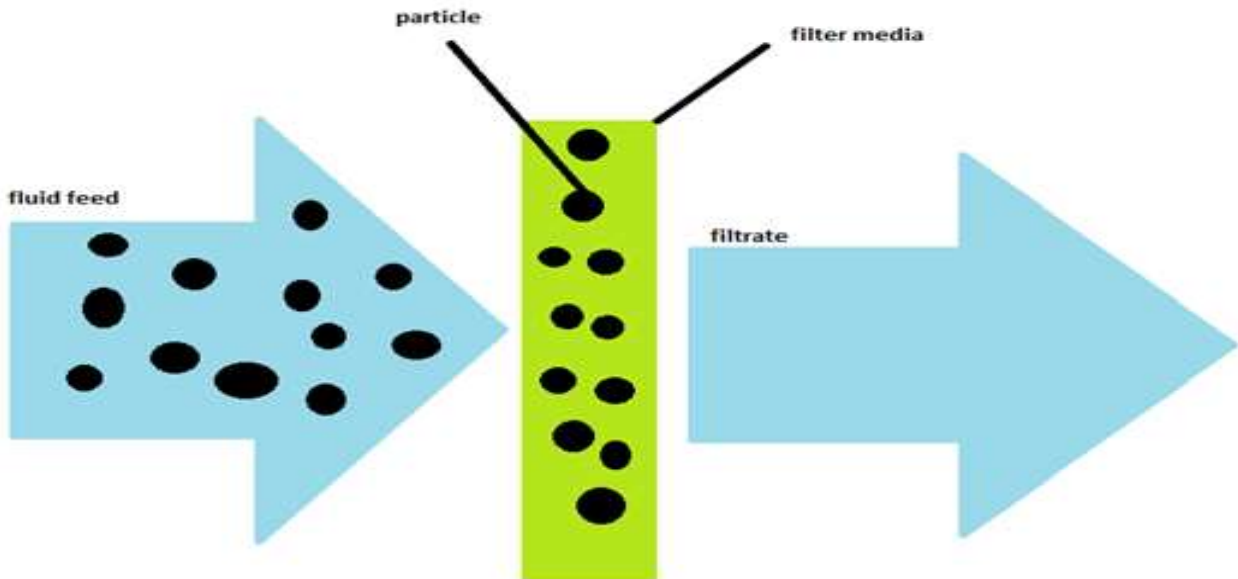




Solid/Liquid Separation



## Making sure that membranes keep their promises

In many cases, membranes require mechanical reinforcement. Only in this way can they withstand the physical stresses of production, processing and application. ASIANEX provides a large range of nonwovens for this need, some of which are individually developed, which have proven themselves for many years as excellent support and drainage media. Every application makes different demands on a nonwoven fabric. Our global know-how and our many years of experience are the basis for creating tailor-made solutions at your site. Our expertise and high quality standards ensure maximum safety in sensitive applications. You can rely on optimal performance and consistent certified quality

**PURIFIED PERFORMANCE**



## FILTER CARTRIDGE

We get what you need. Customized service available

<b>1</b>	<b>PP- MELT BROWN –HF- HIGH FLOW SERIES CARTRIDGES</b>
<b>2</b>	<b>MICRO GLASS FIBRE CARTRIDGES- HIGH EFFICIENCY OF-99.98%</b>
<b>3</b>	<b>NYLON-6,6 MEMBRANE CARTRIDGES</b>
<b>4</b>	<b>PTFE CARTRIDGES- VENT FILTRATION</b>
<b>5</b>	<b>CTO- CARBON BLOCK CARTRIDGES</b>
<b>6</b>	<b>STANDARD EFFICIENCY PLEATED CARTRIDGES</b>
<b>7</b>	<b>HIGH EFFICIENCY PLEATED CARTRIDGES</b>
<b>8</b>	<b>POLYETHER SULPHONE MEMBRANE CARTRIDGES</b>
<b>9</b>	<b>QUAD MELT BLOWN CARTRIDGE FILTERS</b>
<b>10</b>	<b>POEL SERIES LIQUID FILTRATION BAGS</b>
<b>11</b>	<b>STANDARD SERIES LIQUID FILTRATION BAGS</b>

### **FOOD & BEVERAGE / HIGH PURITY WATER AND DRINKING WATER**

Complete line of absolute rated membrane filter elements for your most demanding applications; we can also custom manufacture for your systems and applications up to 40 inches in length. ASIANEX- helps you meet today's regulatory requirements and provide fresh drinking water to satisfy growing population needs and water shortages. ASIANEX filter cartridges and housings are designed to ensure your process will continue to provide fresh drinking water by eliminating sediment and other impurities. ASIANEX continues to develop new and innovative products to meet the challenges in cost effective filtration.

**PURIFIED PERFORMANCE**



## HF SERIES HIGH FLOW CARTRIDGES

*All cartridges are multi layer construction for maximum pleat support and dirt loading.*

### FEATURES AND SPECIFICATIONS

- CLS offers the highest grade, 90% and 99.98% efficient cartridges on the market today
- Our media is manufactured in-house under strict guidelines to ensure consistency and maximum dirt loading
- Complete in-house testing with a Capillary Flow Porometer guarantees a superior and consistent product
- 8 micron ratings, multiple lengths and 5 end cap configurations to ensure we produce the element you require
- Cartridges have thermally bonded end caps and ultrasonic welded media seams for a one piece construction
- We install the maximum amount of media in each filter without pleat binding for increased dirt loading capacity
- Cartridges are 100% polypropylene
- CLS guarantees all media materials used in production are FDA Title 21 compliant
- We offer inside out OR outside in flow pattern for your specific housing application.
- Longer service life equals reduced maintenance and downtime



Product tested and certified by WQA:  
NSF/ANSI 61 and CSA 483.1

**PURIFIED PERFORMANCE**

Materials of Construction		Dimensions (nominal)	
Filter Media:	Polypropylene Melt Blown	Outside Diameter:	6.25" (Nominal)
Core:	Polypropylene	Lengths:	20", 30", 39", 40", 60", & 80"
Netted Outer Cage:	Polypropylene		
Support Material:	Polypropylene		
Sealing:	Thermal Bond		
O-Rings:	Buna N, *(Viton®, Teflon®, Silicone, Neoprene & EDPM) * Available for a cost adder.		
Operating Conditions		Performance Specifications	
Maximum Differential Pressure: 60 psid @ 180°F, 82°C		Retention Ratings of 90% and 99.98% at: .5, 1, 3, 5, 10, 25, 60 & 100 micron	
Toxicity		Certification	
Cartridges are manufactured with no additives or other manufacturing agents. We guarantee all materials used in the production meet FDA Title 21 of the Code of Federal Regulations 174.6 and 177.1620.		NSF/ANSI 61	
Purity		Purity	
		Cartridges are Free of Surfactants, Resins, Binders and Adhesives	

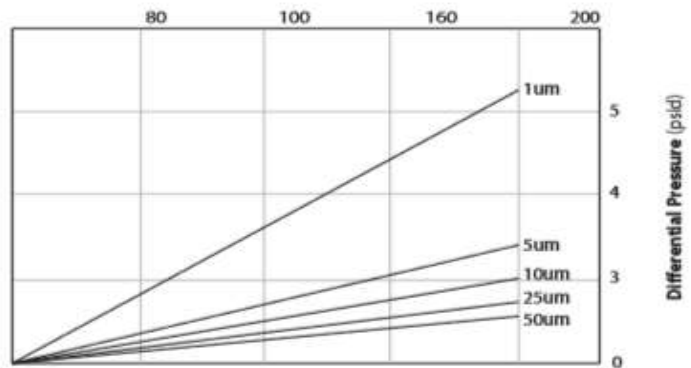
### OPEN END CONFIGURATIONS



### CLOSED END CONFIGURATIONS



Flow Rate (US gal/min) (1016mm/40"Element)



### BUILDING A PART NUMBER

HIGH FLOW CARTRIDGE	MEDIA	EFFICIENCY	MICRON	LENGTH	OPEN END	CLOSED END	O-RING	OUTTER SUPPORT
<b>HF</b>	<b>E</b>	<b>A</b>	<b>1</b>	<b>2</b>			<b>B</b>	
HF= Pleated	E = Polypropylene C = Custom *	A=90% B=99.98%	.5 1 3 5 10 25 50 100	5=20 7=30 8=39 9=40 10=60 11=80 A=custom	225 226 338 362 435	FGH = Folding FXH = Fixed Handle  FLC = Flat	B = Buna V = Viton* T = Teflon* S = Silicone N = Neoprene D = EPDM	C=Hard Cage *ADDITIONAL CHARGES  N=Netting

\*Call for custom medias or non-standard applications



Product tested and certified by WQA:  
NSF/ANSI 61 and CSA 483.1

# GLASS MICROFIBER CARTRIDGES

*GMF Series for general filtration & high flow  
rates at 99.98% efficiency*

## FEATURES AND SPECIFICATIONS

- Glass Microfiber cartridges offer a wide array of retention rating from .5 to 7 microns
- All Glass Microfiber cartridges are produced in-house on the most modern equipment
- Complete in-house testing guarantees a superior and consistent product
- We offer all end cap configurations to provide you the proper cartridge for your applications and housings
- Cartridges have an excellent dirt holding capacity with low flow resistance
- Acrylic bonded media for excellent chemical resistance
- Each cartridge has a non-shedding final layer laminated on the media before pleating
- Cartridges are constructed in a clean room environment
- Cartridges may be ordered as final rinsed with 18 mega ohm water



Toxicity	Purity
Cartridges are manufactured with no additives or other manufacturing agents.	Cartridges are Free of Surfactants, Resins, Binders and Adhesives
Sterilization	
Multiple Autoclaving for 30 Minutes at 250°F (121°C) under no End Load Conditions. In-line Steam Sterilization is not recommended. May be In-line Sanitized with Hot Water at 180°F (82°C) for 1 hour.	

Product Specifications	
<b>Retention Ratings:</b>	.5, .8, 1.2, 2.0, 2.7, 4.0, 6.4 & 7.0 micron
<b>Media:</b>	Acrylic bonded glass microfiber
<b>Support Media:</b>	Polypropylene
<b>End Caps:</b>	Polypropylene
<b>Center Core:</b>	Polypropylene
<b>Outer Support Cage:</b>	Polypropylene
<b>Maximum Operating Temperature:</b>	180°F
<b>Nominal Diameter:</b>	O.D. - 2.65" I.D. - 1" center
<b>Lengths:</b>	10, 20, 30, & 40 inch
<b>Maximum Differential Pressure:</b>	45 psid

### AVAILABLE END CAPS



226

222

DOE Gasket

Fin

Closed

### BUILDING A PART NUMBER

GLASS MICROFIBER	MICRON	CARTRIDGE LENGTH	CORE MATERIAL	END CAP	GASKET / O-RING	18 MEGA OHM RINSE
GMF	1.2	3	E	2	B	R
GMF	.5 .8 1.2 2.0	2.7 4.0 6.4 7.0	E = Polypropylene	2=222/Fin 4=222/Closed 5=226/Closed 6=226/Fin 9=DOE Gasket	B = Buna V = Viton® T = Teflon® S = Silicone N = Neoprene D = EPDM	R

PURIFIED PERFORMANCE



## **NYLON 6,6 MEMBRANE CARTRIDGES**

*NY Series for DI water, process filtration,  
chemical, electronics & beverages*

### **FEATURES AND SPECIFICATIONS**

- Nylon 6,6 cartridges offer a wide array of micron ratings from .03 to 20 microns
- All Nylon 6,6 are produced in-house on the most modern equipment available
- Complete in-house testing guarantees a superior and consistent product
- We offer all end cap configurations to provide the proper cartridge to fit your applications and housing
- All Nylon 6,6 membrane elements are internally supported offering strength to prevent media failure
- Cartridges have excellent dirt holding capacity with low flow resistance
- All media materials used in production are FDA Title 21 compliant
- End caps are thermally welded with no additives
- Cartridges are constructed in a clean room environment
- Naturally hydrophilic media does not need to be wetted before use
- Cartridges may be ordered as final rinsed with 18 mega ohm water

**PURIFIED PERFORMANCE**



Toxicity	Purity
Cartridges are manufactured with no additives or other manufacturing agents. We guarantee all materials used in the production meet FDA Title 21 of the Code of Federal Regulations 174.5 and 177.1520.	Cartridges are Free of Surfactants, Resins, Binders and Adhesives
Sterilization	
Multiple Autoclaving for 30 Minutes at 250°F (121°C) under no End Load Conditions. In-line Steam Sterilization is not recommended. May be In-line Sanitized with Hot Water at 180°F (82°C) for 1 hour.	

Product Specifications	
<b>Retention Ratings:</b>	.03, .1, .2, .45, .65, .8, 1.2, 5, 10 & 20 micron
<b>Membrane:</b>	Nylon 6,6
<b>Support Media:</b>	Polypropylene
<b>End Caps:</b>	Polypropylene
<b>Center Core:</b>	Polypropylene
<b>Outer Support Cage:</b>	Polypropylene
<b>Maximum Operating Temperature:</b>	175°F
<b>Nominal Diameter:</b>	O.D. - 2.65" I.D. - 1" center
<b>Lengths:</b>	10, 20, 30, & 40 inch
<b>Maximum Differential Pressure:</b>	45 psid

**PURIFIED PERFORMANCE**





## PTFE MEMBRANE CARTRIDGES

*PTF Series for chemical and vent filtration  
with optimal air or gas flow*

### FEATURES AND SPECIFICATIONS

- membrane filters offer a wide array of micron ratings from .02 to 5 microns
- Excellent for chemical and pharmaceutical filtration applications
- PFE cartridges are hydrophobic, resisting water while offering excellent air and gas flow
- All PTF cartridges are produced in-house on the most modern equipment available
- Complete in-house testing guarantees a superior and consistent product
- Multiple end cap configurations to provide the proper cartridge to fit most applications and housings
- All media materials used in production are FDA Title 21 compliant
- Cartridges are constructed in a clean room environment
- Cartridges offer structural stability, long life, and high performance with maximum filtration area



Toxicity	Purity
Cartridges are manufactured with no additives or other manufacturing agents. We guarantee all materials used in the production meet FDA Title 21 of the Code of Federal Regulations 174.5 and 177.1520.	Cartridges are Free of Surfactants, Resins, Binders and Adhesives
Sterilization	
Multiple Autoclaving for 30 Minutes at 250°F (121°C) under no End Load Conditions. In-line Steam Sterilization is not recommended. May be In-line Sanitized with Hot Water at 180°F (82°C) for 1 hour.	

Product Specifications	
<b>Retention Ratings:</b>	.02, .05, .1, .2, .45, 1.0, 3.0 & 5.0 micron
<b>Membrane:</b>	PTFE
<b>Support Media:</b>	Polypropylene
<b>End Caps:</b>	Polypropylene
<b>Center Core:</b>	Polypropylene
<b>Outer Support Cage:</b>	Polypropylene
<b>Maximum Operating Temperature:</b>	180°F
<b>Diameter:</b>	O.D. - 2.65" I.D. - 1" center
<b>Lengths:</b>	10, 20, 30, & 40 inch
<b>Maximum Differential Pressure:</b>	45 psid

### AVAILABLE END CAPS



### BUILDING A PART NUMBER

PTFE	MICRON	CARTRIDGE LENGTH	CORE MATERIAL	END CAP	GASKET / O-RING	18 MEGA OHM RINSE
PTF	.02	3	E	2	B	R
PTFE	.02	3 = 10 5 = 20 7 = 30 9 = 40	E = Polypropylene	2 = 222/Fin	B = Buna V = Viton® T = Teflon® S = Silicone N = Neoprene D = EPDM	R
	.05			4 = 222/Closed		
	.1			5 = 226/Closed		
	.2			6 = 226/Fin		
				9 = DOE Gasket		

## PURIFIED PERFORMANCE





## CTO CARBON BLOCK CARTRIDGES

### FEATURES AND SPECIFICATIONS

- Proprietary Carbon Blend Formulations Used for Maximum Adsorption
- Cartridges will reduce Foul Odors, Chlorine Taste and Particulate Matter
- Polypropylene Outer Prefilter
- Consistent density for controlled flow rates and pressure loss
- Polypropylene or Colored Plastisol End Caps Available
- No GAC By-pass or Fluidizing
- All materials used in production are FDA Title 21 compliant
- Available up to 40" Lengths in 2.5" & 4.5" Outside Diameter
- Multiple Micron Ratings Available
- One Piece Carbon Block Construction Reduces Bypassing
- Extruded coconut carbon construction
- Plastisol end caps available for increased chemical and temperature resistance



**PURIFIED PERFORMANCE**

Product Specifications	
<b>Micron Ratings:</b>	1, 3, 5, 10 micron
<b>Construction:</b>	Carbon & Polypropylene
<b>End Caps:</b>	Polypropylene
<b>Operating Temperature:</b>	Cold or ambient water use only
<b>Diameter</b>	O.D. - 2.65" to 4.5" I.D. - 1.1" Center
<b>Nominal Lengths</b>	9.75" to 40"
<b>Chlorine &amp; Odor Reduction Capacity @ Flow</b>	> 6,100 gal @ 1.0 GPM *
<b>Initial Differential Pressure @ Flow</b>	< 3 PSID @ 1 GPM *
*Based on Manufacturer's Internal Testing	
FDA compliance under Title 21 of the code of federal regulations for food contact applications	

### BUILDING A PART NUMBER

CARBON BLOCK	MEDIA	MICRON	DIAMETER	LENGTH	ELEMENT GRADE	END CAP	O-RING
CB	E	1	S	2	S		B
CB	E = Polypropylene	1 3 5 10	S = 2.5" Standard M = 4.5"	1 = 9.875 2 = 9.75 3 = 10 4 = 19.5 5 = 20 6 = 29.25 7 = 30 8 = 39 9 = 40 C=custom	S = Standard	1 = DOE-Plastisol 2 = 222/Fin 3 = 222/Spring 4 = 222/Flat 5 = 226/ Flat 6 = 226/Fin 7 = 226/Spring 8 = SOE/Spring 9 = DOE Gasket A = Custom	B = Buna V = Viton® T = Teflon® S = Silicone N = Neoprene D = EPDM



# STANDARD EFFICIENCY PLEATED

*SE & SC Series for Cost Effective Filtration Applications*



**C USA**  
"SE" Standard Efficiency Pleated  
are WQA tested and certified to:  
NSF/ANSI 372, NSF/ANSI 61,  
CSA B483.1, NSF/ANSI 42  
(Material Safety)

## FEATURES AND SPECIFICATIONS

- standard efficiency pleated cartridges are manufactured in-house offering 2 grades of media—polypropylene and polyester
- Complete in-house testing guarantees a superior and consistent products
- With 7 micron ratings, 3 standard diameters and 9 standard lengths we are sure to produce the element you require
- We produce our own molds for the PVC end caps, custom sizes and applications are welcomed
- Platisol end caps allow for high temperature resistance applications
- All seams are 100% ultrasonically welded to ensure zero bypass
- Standard diameters are 2.5, 2.75 and 4.5 inches
- Standard lengths up to 40 inches
- We place a maximum amount of media in each filter without pleat blinding for increased dirt holding capacity
- All media materials used in production are FDA Title 21 compliant
- Color coded end caps for easy micron rating identification

**PURIFIED PERFORMANCE**

Materials of Construction		Dimensions (nominal)	
Filter Media:	Polypropylene or Polyester Non-woven	Outside Diameter:	2.5", 2.75", 4.5"
Sealing:	Thermal Bond	Lengths:	9.75", 9.875", 10", 19.5", 20", 29.25", 30", 39" & 40"
Surface Area		Performance Specifications	
Up to 5.5ft <sup>2</sup> (.23m <sup>2</sup> ) of Effective Filtration Area per 10" equivalent, dependent upon micron rating		Retention Ratings: 1, 5, 10, 20, 30, 40 & 50 micron	
Operating Conditions		FDA Listed Materials	
Maximum Differential Pressure: 35 psid @ 120°F (49°C)		Manufactured from materials which are FDA listed for food contact applications in Title 21 of the	

## BUILDING A PART NUMBER

STANDARD EFFICIENCY PLEATED CARTRIDGE	MEDIA	CORE	CARTRIDGE DIAMETER	MICRON	CARTRIDGE LENGTH	END CAPS
<b>S</b>	<b>E</b>	<b>E</b>	<b>S</b>	<b>1</b>	<b>5</b>	<b>1</b>
<b>S</b>	<b>E</b> = Polypropylene <b>C</b> = Polyester	<b>E</b> = Polypropylene <b>C</b> = Custom	<b>S</b> = 2.5" standard <b>B</b> = 2.75" <b>M</b> = 4.5" <b>C</b> = Custom	<b>1</b> <b>5</b> <b>10</b> <b>20</b> <b>30</b> <b>40</b> <b>50</b>	<b>1</b> = 9.875 <b>2</b> = 9.75 <b>3</b> = 10 <b>4</b> = 19.5 <b>5</b> = 20 <b>6</b> = 29.25 <b>7</b> = 30 <b>8</b> = 39 <b>9</b> = 40	<b>1</b> = DOE/plastisol <b>A</b> = Custom

## OEM APPLICATIONS

- With our full line of production equipment, we have the ability to make filters up to 16 inches in diameter and 40 inches in length
- We custom laminate, pleat and apply plastisol end caps to your specifications



**C USA**

"SE" Standard Efficiency Pleated are WQA tested and certified to:  
NSF/ANSI 372, NSF/ANSI 61,  
CSA B483.1, NSF/ANSI 42  
(Material Safety)

# PURIFIED PERFORMANCE

# HIGH EFFICIENCY PLEATED CARTRIDGES

*H & NH Series in 2 efficiency grades, offer  
the ultimate in high-end filtration*

## FEATURES AND SPECIFICATIONS

- the highest grade, 90% and 99.98% efficient Cartridges on the market today
- Our media is manufactured in-house under strict guidelines to ensure consistency
- Complete in-house testing with a Capillary Flow Porometer guarantees a superior and consistent product
- With 8 micron ratings and multiple lengths to ensure we produce the element you require
- Cartridges have thermally bonded end caps and ultrasonic welded media seams for a one piece construction
- The maximum amount of media is installed in each filter without pleat blinding for increased dirt loading capacity
- Cartridges are 100% polypropylene—media, inner and outer supports and end caps
- All media and materials used in production are FDA Title 21 compliant
- Cartridges are constructed in a clean room environment
- Cartridges may be ordered with a final rinse of 18 mega ohm water
- Final, one piece construction up to 40" long ensures zero bypass



Materials of Construction		Dimensions (nominal)	
Filter Media:	Polypropylene Melt Blown	Outside Diameter:	2.65"
Hard Outer Cage:	Polypropylene	Lengths:	10", 20", 30" & 40"
Netted Outer Cage:	Polypropylene	Lengths:	9.75", 10", 19.5", 20", 29.25", 30", 39" & 40"
Support Material:	Polypropylene		
Sealing:	Thermal Bond		
Gaskets/O-Rings:	Buna N, Viton®, Teflon®, Silicone, Neoprene & EDPM		
Surface Area		Performance Specifications	
Up to 5.5ft <sup>2</sup> (.23m <sup>2</sup> ) of Effective Filtration Area per 10" equivalent, dependent upon micron rating		Retention Ratings of 90% and 99.98% at: .2, .45, 1, 3, 5, 10, 25, & 50 micron	
Operating Conditions		FDA Listed Materials	
Maximum Differential Pressure: 35 psid @ 180°F (49°C)		Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. code of federal regulations	
Toxicity		Purity	
Cartridges are manufactured with no additives or other manufacturing agents. We guarantee all materials used in the production meet FDA Title 21 of the Code of Federal Regulations 174.5 and 177.1520.		Cartridges are Free of Surfactants, Resins, Binders and Adhesives	
Sterilization			
Multiple Autoclaving for 30 Minutes at 250°F (121°C) under no End Load Conditions. In-line Steam Sterilization is not recommended. May be In-line Sanitized with Hot Water at 180°F (82°C) for 1 hour.			



# POLYETHERSULFONE MEMBRANE CARTRIDGES

*PES SERIES FOR ELECTRONICS, DI WATER,  
CHEMICAL & BEVERAGE FILTRATION*

## FEATURES AND SPECIFICATIONS

- (PES), Polyethersulfone cartridges offer a wide array of micron ratings from .1 to 5 microns
- All Polyethersulfone cartridges are produced in-house on the most modern equipment available
- Complete in-house testing guarantees a superior and consistent product
- Cartridges have excellent dirt holding capacity with low flow resistance
- Naturally hydrophilic media does not need wetted before use
- We offer all end cap configurations to fit your applications and housings
- Polyethersulfone media is excellent for its low protein binding and chemical compatibility
- Cartridges are manufactured to meet FDA Title 21 for food contact applications
- Cartridges are constructed in a clean room environment
- Cartridges may be ordered as final rinsed with 18 mega ohm water



Toxicity	Purity
Cartridges are manufactured with no additives or other manufacturing agents. We guarantee all materials used in the production meet FDA Title 21 of the Code of Federal Regulations 174.5 and 177.1520.	Cartridges are Free of Surfactants, Resins, Binders and Adhesives
Sterilization	
Multiple Autoclaving for 30 Minutes at 250°F (121°C) under no End Load Conditions. In-line Steam Sterilization is not recommended. May be In-line Sanitized with Hot Water at 180°F (82°C) for 1 hour.	

Product Specifications	
<b>Retention Ratings:</b>	.1, .22, .45, .6, .8, 1.2, & 5 micron
<b>Membrane:</b>	Polyethersulfone
<b>Support Media:</b>	Polypropylene
<b>End Caps:</b>	Polypropylene
<b>Center Core:</b>	Polypropylene
<b>Outer Support Cage:</b>	Polypropylene
<b>Maximum Operating Temperature:</b>	175°F
<b>Nominal Diameter:</b>	O.D. - 2.65" I.D. - 1" center
<b>Lengths:</b>	10, 20, 30, & 40 inch
<b>Maximum Differential Pressure:</b>	45 psid

FDA compliance under Title 21 of the code of federal regulations for food contact applications

### AVAILABLE END CAPS

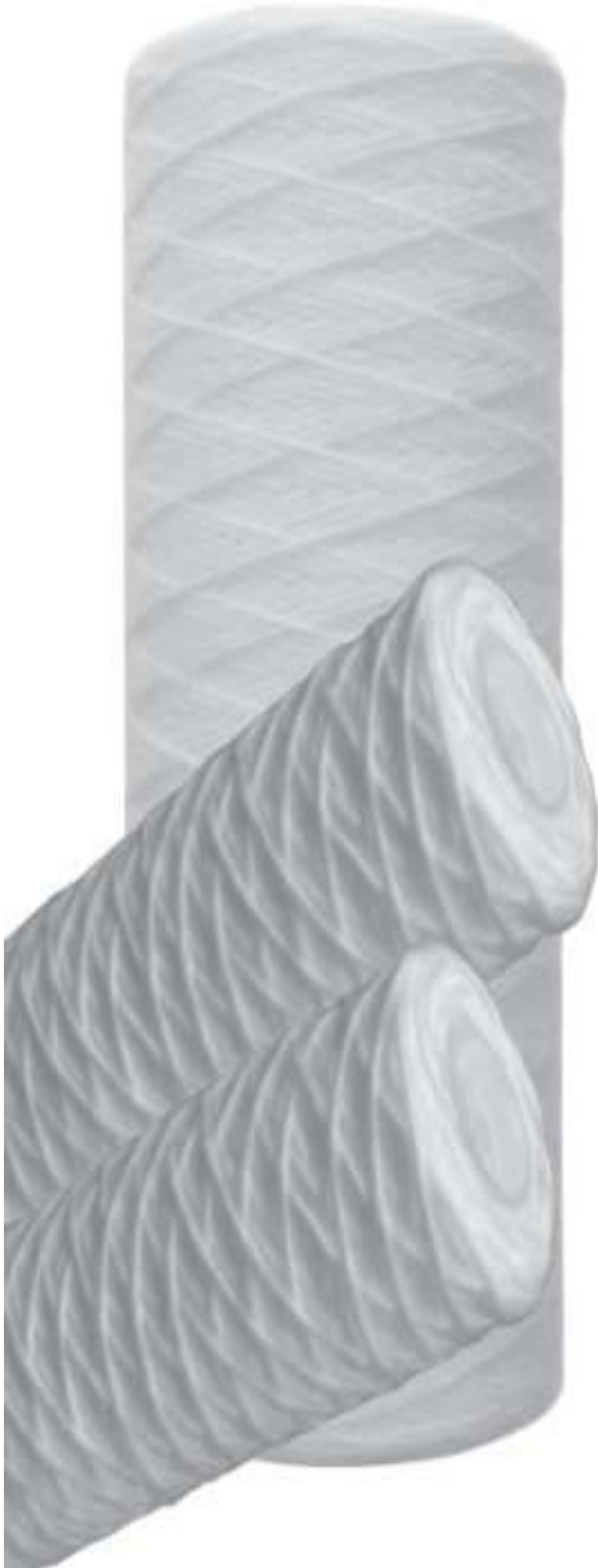


### BUILDING A PART NUMBER

POLYETHERSULFONE	MICRON	CARTRIDGE LENGTH	CORE MATERIAL	END CAP	GASKET / O-RING	18 MEGA OHM RINSE
PES	.1	3	E	2	B	R
PES	.1 .22 .45 .60 .80 1.2 5.0	3 = 10 5 = 20 7 = 30 9 = 40	E = Polypropylene	2 = 222/Fin 4 = 222/Closed 5 = 226/Closed 6 = 226/Fin 9 = DOE Gasket	B = Buna V = Viton® T = Teflon® S = Silicone N = Neoprene D = EPDM	R

# STRING WOUND CARTRIDGES

*W & WQ Series with Leading-Edge  
Depth Loading Technology*



## FEATURES AND SPECIFICATIONS

- string wound elements are manufactured in-house on custom, high-speed, computer controlled machines for consistent thread spacing
- Customized patterns and spacing offered to adapt to your specialized applications
- Ink and paint elements have a 3-stage multi pattern winding process offering true depth loading and prevents core blinding
- With 6 media selections and 15 micron ratings, we are sure to produce the element you require
- All end cap configurations available to fit your existing housing
- Standard diameters are 2.5 and 4.5 inches
- Standard lengths from 9.75 to 40 inches
- FDA Title 21 Compliant Media



**C USA**

"WS" String wound cartridges are  
Tested and Certified by WQA to:  
NSF/ANSI 61, NSF/ANSI 42 - Component,  
NSF/ANSI 372, CSA 483.1

Media	Maximum Temperature	Applications
N – Natural Cotton	300°F / 150°C	Same (non-FDA) applications as bleached cotton.
C – Bleached Cotton FDA	300°F / 150°C	For potable liquids, vegetable oils, beverages, organic solvents, water, dilute acids, petroleum oils and other services.
P – Polyester	250°F / 121°C	Chemical compatibility similar to cotton and polypropylene. Has a higher temperature resistance than polypropylene in most cases.
E – Polypropylene	180°F / 82°C	Filtration of organic acids, alkalis, solvents and many other chemicals. Very effective in low viscosity solutions.
S – Polypropylene FDA	180°F / 82°C	Same chemical compatibility as polypropylene but complies with FDA regulations that permit contact with food and edible products.
R – Rayon	300°F / 150°C	Chemical compatibility similar to cotton. Used primarily in filtration of petroleum oils.
Cores	Maximum Temperature	Characteristics
E – Polypropylene FDA	180°F / 82°C	For lower temperature applications of corrosive fluids and gases. Easily incinerated to a trace of ash.
S – Tinned Steel	375°F / 191°C	General purpose applications
4 – 304 Stainless Steel	750°F / 399°C	For high temperature dilute acids and moderately corrosive fluids.
6 – 316 Stainless Steel	750°F / 399°C	For high temperature applications and highly corrosive fluids.
Gaskets & O-Rings	Maximum Temperature	Characteristics
B – Buna	300°F / 149°C	Very good resistance to water, alkalis and many acids. Poor resistance to oils, gasoline and most solvents (except oxygenated).
V – Viton®	450°F / 232°C	Can be used at high temperature with many fuels, lubricants, hydraulic fluids and solvents.
T – Teflon®	500°F / 260°C	Excellent resistance to almost all chemicals and solvents. Good heat resistance, exceptionally good low-temperature properties.
S – Silicone	600°F / 316°C	Excellent heat resistance. Fair water resistance, poor resistance to steam at high pressures. Fair to good acid and alkali resistance, poor resistance to oils and solvents.
N – Neoprene	250°F / 121°C	Good resistance to non-aromatic petroleum, fatty oils, solvents (except aromatic, chlorinated or ketone types). Good water and alkali resistance, fair acid resistance.
E – EPDM	300°F / 149°C	Very good water resistance. Excellent resistance to oils and gasoline. Fair to good resistance to acids and alkalis.

### AVAILABLE END CAPS



### BUILDING A PART NUMBER

STRING WOUND	MEDIA	MICRON	CARTRIDGE DIAMETER	CARTRIDGE LENGTH	CORE MATERIAL	CORE COVER	POLYPROPYLENE END CAP	GASKET / O-RING
<b>W</b>	<b>P</b>	<b>10</b>	<b>S</b>	<b>3</b>	<b>E</b>	<b>X</b>	<b>1</b>	
W = Standard ✓ WQ = Ink & Paint	N = Natural cotton C = Bleached cotton FDA P = Polyester E = Polypropylene S = Polypropylene FDA ✓ R = Rayon	.5 30 1 50 3 75 5 100 10 125 15 150 20 200 25	S = 2.5" Standard M = 4.5" * C = Custom	1 = 9.875 2 = 9.75 3 = 10 4 = 19.5 5 = 20 6 = 29.25 7 = 30 8 = 39 9 = 40	E = Polypropylene ✓ T = Tinned Steel 4 = 304 SS 6 = 316 SS	X = No cover ✓ E = Polypropylene P = Polyester N = Nylon S = Custom	1 = DOE/no caps ✓ 2 = 222/Fin ✓ 3 = 222/Spring ✓ 4 = 222/Closed ✓ 5 = 226/Closed 6 = 226/Fin 7 = 226/Spring 8 = SOE/Spring ✓ 9 = DOE Gasket ✓ A = Custom E = Core Extender ES = Core Extender/Spring	DOE = No selection req. B = Buna ✓ V = Viton® T = Teflon® S = Silicone ✓ N = Neoprene D = EPDM

\* For the 4.5" diameter cartridge, only DOE end caps are available. ✓Combinations are tested and certified by WQA.



MELT BLOWN CARTRIDGES™  
**QUAD SERIES**  
**MELT BLOWN FILTERS**

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**QUAD-PRO**

- FDA Title 21 Compliant
  - Great Value
  - No Glue or Binders
  - High Dirt Loading
  - Low Pressure Drop
- 

**QUAD-DELUXE**

- 95% Efficiency at designated microns
  - FDA Title 21 Compliant
  - Integrated 4 Stage Depth Loading
  - High Dirt Loading
  - Low Pressure Drop
- 

**QUAD-ELITE**

- 99% Efficiency at designated microns
  - FDA Title 21 Compliant
  - Integrated 4 Stage Depth Loading
  - Cored Center for Filter Stability
  - High Dirt Loading
  - Heat set surface to stop fiber migration
- 

**QUAD-RO**

- High-End Membrane Protection when it is Critical
- FDA Title 21 Compliant
- Integrated 4 Stage Depth Loading
- Cored Center for Filter Stability
- High Dirt Loading
- No Fiber Migration

*Melt Blown Cartridges are WQA C*

*tested and certified to:  
NSF/ANSI 372 / NSF/ANSI 61 / CSA B483.1  
NSF/ANSI 42 - Component*



USA



The 4-zone technology allows the larger particles to be trapped in the outer most layers. The inner most layer is where the true efficiency rating is achieved. The two images show how there is a consistent dirt loading pattern throughout the life of the filter.



Zone 1  
Filter Media

Zone 2  
Prefilter

Zone 3  
Dirt Loading

Zone 4  
Dirt Loading/Open Fiber Finish

This image shows the Quad Series cut away layer by layer. The outermost layers are made of larger diameter fibers to allow larger particles to flow through, while the inner most layers trap the fine particles maximizing the life of the filter.

The Quad Series is offered with or without a heavy duty polypropylene core.



## ADVANTAGES

- Removal from 1um to 100um
- Quad Zone technology allow the formation of 4 separate filtration zones within the depth of the filter cartridge.
- Continuous 4-zone structure provides effective pre-filtration and final filtration.
- State of the art computer controlled manufacturing process delivers an extremely accurate and consistent product per each zone for proper fiber sizing.
- High-strength polypropylene core maximizes flow and optimizes each of the 4 zones. If required all Quad series may be ordered with cores.
- 100% polypropylene construction allows a wide range of uses, including FDA compliant material for food and beverage contact under CFR Title 21.
- All Quad Series cartridges are free of surfactants, binders or adhesives of any kind.
- Continuous lengths up to 72".
- All End Configurations available to fit most industry standards.
- All end caps are thermal bonded, no glues or adhesives are used.

Melt Blown Cartridges are WQA tested and certified to:  
NSF/ANSI 372 / NSF/ANSI 61 / CSA B483.1  
NSF/ANSI 42 - Component



C USA



## SPECIFICATIONS

- Maximum Forward Differential Pressure  
40 psid (1.7 bar) @ 155° F (66° C)  
60 psid (3.4 bar) @ 86° F (30° C)
- Recommended Change Out Differential Pressure  
35 psid (2.4 bar)
- Micron Ratings  
1, 5, 10, 20, 25, 30, 50, 75 & 100
- Biosafety  
All polypropylene components meet the specifications for biological safety per the USP for Class VI-121° C plastics.
- FDA Listed Materials  
all materials used in production are FDA Title 21 compliant

Melt Blown Cartridges are WQA tested and certified to:  
NSF/ANSI 372 / NSF/ANSI 61 / CSA B483.1  
NSF/ANSI 42 - Component



C USA

## END CAP CONFIGURATIONS



## BUILDING A PART NUMBER

MELT BLOWN	MEDIA	MICRON	DIAMETER	LENGTH	SERIES	CORE (OPTIONAL)	END CAP	GASKET/O-RING
B	E	1	S	2	X		2	B
B	E = Polypropylene	1 5 10 20 25 30 50 75 100	S = 2.5" Standard M = 4.5"* C = Custom	1 = 9.875 2 = 9.75 3 = 10 4 = 19.5 5 = 20 6 = 29.25 7 = 30 8 = 39 9 = 40 W = 50 C = Custom up to 72"	S = Quad Pro X = Quad Deluxe A = Quad Elite R = Quad Ro	H = Polypropylene Core  (Series A & R require a core)	1 = DOE/no caps ✓ 2 = 222/Fin ✓ 3 = 222/Spring ✓ 4 = 222/Closed ✓ 5 = 226/Closed ✓ 6 = 226/Fin 7 = 226/Spring 8 = 50E/Spring ✓ 9 = DOE Gasket ✓ A = Custom E = Core Extender ES = Core Extender/ Spring	B = Buna ✓ V = Viton® T = Teflon® S = Silicone ✓ N = Neoprene D = EPDM P = Polyfoam  (No Selection required for DOE)

\*4.5" Diameter, only DOE is available, ✓Combinations are certified by WQA

**PURIFIED PERFORMANCE**





## **POEL SERIES MAXIMUM LIFE, MAXIMUM DIRT LOADING LIQUID FILTER BAGS**



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### **STANDARD FEATURES**

- **No other bag holds more particulate**
- Manufactured in USA
- Adds an additional 890 cubic inches of depth filtration
- Standard size bags to fit most major housing brands
- Available in 1 to 200 micron ratings
- Dual Gradient Depth Media
- Designed for maximum dirt loading
- Choice of four different top rings
- Removes tramp oils from water with fine fiber dual gradient depth media
- Optional glazed media finish inhibits fiber migration
- Features heavy duty handle for easy removal, at no additional cost
- Reduces the number of change outs required, extending filter life
- Saves on labor costs by reducing change outs

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### **SPECIFICATIONS**

#### **OPERATING PARAMETERS**

#### **MICRON RATINGS**

1, 5, 10, 25, 50, 75, 100 and 200 microns

#### **BAG SIZES**

#1 - 7 1/16" diameter x 16 1/2" length

#2 - 7 1/16" diameter x 27" length

#12 - 8 1/8" diameter x 27" length

#### **MATERIALS OF CONSTRUCTION**

Bag: Polypropylene Felt

Ring: Polypropylene

Stainless Steel

Carbon Steel

Plastic Flanged

# BUILDING A PART NUMBER

Available Material	Micron Rating
<b>POEL</b> - Polypropylene Extended Life <b>OREL</b> - Oil Removal	1, 5, 10, 25, 50, 75, 100, 200
Finish or Cover	Bag Size
<b>P</b> = None (standard) <b>FF</b> = Fiber Free <b>G</b> = Glazed <b>A</b> = Automotive	#1 - 7 1/16" diameter x 16 1/2" length #2 - 7 1/16" diameter x 27" length #3 - 4 1/8" diameter x 8" length #4 - 4 1/8" diameter x 14" length #12 - 8 1/8" diameter x 27" length
Ring Style	Handle Options
<b>S</b> = Carbon Steel, standard 12" handle <b>SS</b> = Stainless Steel, standard 12" handle <b>PO</b> = Polypropylene, standard 12" handle <b>F</b> = Plastic Flange	<b>No Symbol</b> = Standard heavy-duty handle <b>DH</b> = Double Handle

MEDIA	MICRON RATING	FINISH OR COVER	BAG SIZE	RING STYLE	HANDLE OPTIONS
<b>POEL</b>	<b>5</b>	<b>P</b>	<b>2</b>	<b>S</b>	
<b>POEL</b>	1    50	<b>P</b>	1	<b>S</b>	<b>DH</b>
	5    75	<b>FF</b>	2	<b>SS</b>	
<b>OREL</b>	10   100	<b>G</b>	3	<b>PO</b>	
	25   200	<b>A</b>	4	<b>F</b>	
			12		

# LIQUID FILTER BAGS

*Standard, Custom, Multi-Layered—it's in the bag*



## FEATURES AND SPECIFICATIONS

- liquid filter bags are manufactured in the USA, and are made with the highest grade materials to offer you quality and efficiency in each bag
- All standard sizes are available with 12 different top rings to offer you the proper filter bag you need to adapt with your existing housings
- Ratings from 1 to 1000 micron and 8 different medias suitable to your application
- Bag Handles are standard on our bags at no additional cost
- Our filter bags are produced in a silicone free environment
- Custom bags, sleeves or panels can be produced to your specifications, offering you complete control of the filtration process
- Multi-Layered filter bags are available
- Optional Glazing inhibits fiber migration and enhances efficiency
- All materials used in production are FDA Title 21 compliant

Available Material	Micron Rating
PE -Polyester Felt	1, 5, 10, 25, 50, 75, 100, 200
PO -Polypropylene Felt	1, 5, 10, 25, 50, 75, 100, 200
PEM – Polyester Multifilament Mesh	100, 150, 200, 250, 400, 600, 800, 1000
NM – Nylon Multifilament Mesh	150
NMO – Nylon Monofilament Mesh	5, 10, 25, 50, 75, 100, 150, 200, 250, 300, 400, 600, 800, 1000
OR – Oil Removal	25

Finish or Cover	Bag Size
<p>P = None (standard)  FF = Fiber Free  G = Glazed  NMO = Nylon Monofilament Mesh Cover  NM = Nylon Multifilament Mesh Cover  C = Cerex (Spunbonded Nylon) Cover  L = Spunbonded Polypropylene Cover  R = Reemay (Spunbonded Polyester) Cover  PEM = Polyester Multifilament Mesh Cover  A = Automotive</p>	<p>1 = 7-1/16" dia x 16-1/2" L  2 = 7-1/16" dia x 32" L  3 = 4-1/8" dia x 8" L  4 = 4-1/8" dia x 14" L  5 = 4-1/8" dia x 24-1/2" L  7 = 5-5/8" dia x 15" L  8 = 5-5/8" dia x 21" L  9 = 5-5/8" dia x 32" L  12 = 8" dia x 32" L  CN1 = Cuno® #1 size housing, 9" dia x 20" L  CN2 = Cuno® #2 size housing, 9" dia x 30" L  RP1 = Ronningen-Pelster® #1 size housing, 8" dia x 30" L  RP2 = Ronningen-Pelster® #2 size housing, 8" dia x 40" L  CM1 = Commercial Filters® #1 size housing, 7-5/16" dia x 16-1/2" L  CM2 = Commercial Filters® #2 size housing, 7-5/16" dia x 31" L</p>
Ring Style	Handle Options
<p>S = Carbon Steel, standard 12" handle  SS = Stainless Steel, standard 12" handle  PO = Polypropylene, standard 12" handle  DS = Drawstring  F = FSI Plastic Flange  NR = No Ring</p>	<p>No symbol = standard 12" polypropylene material  NH = No Handle  DH = Double Handle  LH = 18" Handle  RC = Reverse Collar</p>

## BUILDING A PART NUMBER

MEDIA	MICRON RATING	FINISH OR COVER	BAG SIZE	RING STYLE	HANDLE OPTIONS
PE	5	P	2	S	
PE PO PEM NM NMO OR	Refer to Chart above for Available Choices	P FF G NMO NM C L R PEM A	1 to CM2	S SS PO DS F NR	NH DH LH RC