



## **DEPTH WOUND FILTER CARTRIDGES**

MAXI-DEPTH, MAXI-WIND, HI-PERF, PUREFYBE and VALUWOUND filter cartridges offer true depth filtration. Wound cartridges are manufactured to provide selective particle retention throughout the media's depth which translates to high solids retention and longer service life with relatively low pressure drop.

## **MELT BONDED FILTER CARTRIDGES**

POLYSPUN melt bonded filter cartridges are manufactured from continuous fibers thermally bonded and spun over a heated mandrel. Controlled graded density construction provides true depth filtration. These cartridges are free of resins, lubricants and anti-static agents; they are non-migrating and suitable for high purity applications.

## **PLEATED FILTER CARTRIDGES**

POLYSERF pleated filter cartridges are manufactured of continuous polypropylene microfibers self-bonded by a unique process that controls media uniformity and density. They provide large surface area for efficient particle removal with very low pressure drops. These cartridges are also free of resins, binders or surfactants for high purity applications.

## **SLEEVE-TYPE FILTER CARTRIDGES**

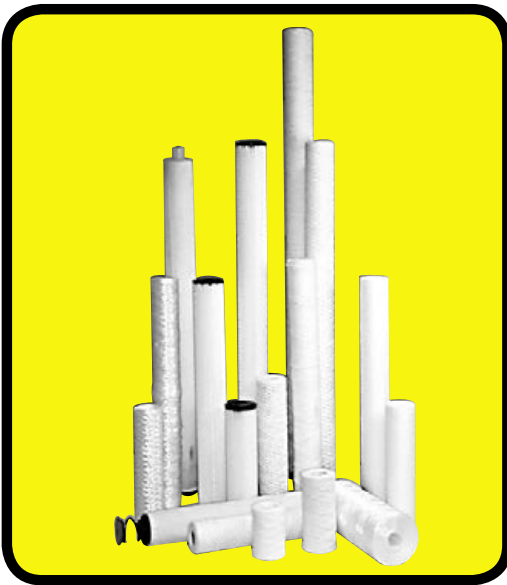
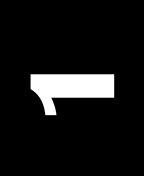
SERFILCO sleeve-type filter cartridges may be used uncoated or precoated with filter aid. Sleeve cartridges are interchangeable with any regular cartridge of corresponding length. They are re-usable for economical operation and, therefore, minimize disposal costs.

## **BAG FILTERS**

A Bag Filter is shaped like a bag or sack with only the top side open. The bag filter is made of a variety of materials including needled felt and polypropylene, just to name a few. Flow is from inside through the porous material to the outside. Bag filters are available in a variety of micron ratings from 5 to 100. Bag filters are best used to capture large contaminants, or applications with high contaminate loading. One of the best applications for bag filters is ahead of cartridge filters reducing the loading and increasing life.

## **ROLL FILTER MEDIA**

Roll filter media is used by a wide variety of high solid loading, gravity flow, filtration machinery. Generally these are automatic indexing continuous operation filtration machines that use rolls of filtering media. The roll filter media is available in a wide range of widths, lengths and materials such as polypropylene and polyester in nominal micron ratings from 1 to 125.



SERFILCO offers a wide selection of filter cartridge styles, material selections and porosities to satisfy almost any filtration application in the metal finishing and electronics industries. They can be used with SERFILCO filter chambers and systems or as replacements for other single or multiple cartridge housings.

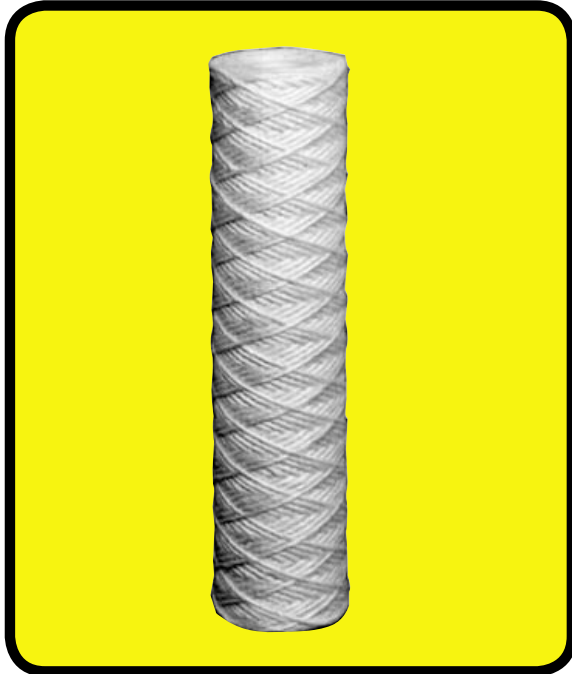
SERFILCO offers stock cartridges in minimum quantities. They are available for immediate delivery. To meet your annual needs, enter a blanket order with scheduled releases to earn the lowest quantity price, plus gain "just in time" delivery.

## **7 REASONS FOR USING DEPTH FILTER CARTRIDGES**

- 1 TRUE DEPTH FILTRATION** - wound filter cartridges provide selective particle retention. They are manufactured to provide true depth filtration deficient filtering throughout the path of the fluid. Winding creates diamond-shaped openings that become progressively smaller toward the center tube, to trap progressively smaller particles. Large particles never reach small openings.
- 2 LONGER SERVICE LIFE** – because the wound cartridge so successfully resists clogging, it's not uncommon for a set of cartridges to filter many millions of gallons of fluid before replacement. Fewer filter changes obviously save both labor and materials: but more important is that production equipment is shut down less often for filter cartridge service. Such facts are important considerations in selecting the kind of filtration system you install.
- 3 CHEMICAL AND TEMPERATURE COMPATIBILITY** – cartridge windings are made in a variety of materials – polypropylene, nylon, cotton, rayon, orlon and glass to name a few, and other materials on special order. Cores are of polypropylene, stainless steel or tinned steel as standard materials. Various materials also have different temperature tolerances. By selecting the right materials for your needs, you're assured of complete chemical and temperature compatibility.



- 4 EASE OF SERVICE** – depth cartridges do not require highly trained personnel for service. Replacement can be done by almost anyone. On most filter chambers, a top cover is removed, old cartridges are lifted out and new ones are set in place. No solution is lost from the tank. Changing can be done much quicker than filters that use loose media.
- 5 POLLUTION ABATEMENT** – cartridges present no liquid or wastewater pollution problem: spent cartridges are disposed of as solid waste. Where it is necessary to treat them for toxicity or to neutralize them, it can be done in place, with cartridges still in the chamber.
- 6 WIDE CHOICE OF POROSITIES** – wound cartridges reject particles from as low as 0.5 micron to 100 micron. This wide range of porosities expands the customer's ability to tailor his filtration system to his specific need, to select exactly the right cartridge, whether for single pass filtration or recirculation filtration.
- 7 MODULAR DESIGN** – most filter chambers designed for wound cartridges can accommodate several modular sizes of cartridges in diameters of 2.5 inches and standard lengths of 6, 10, 20, 30, and 40 inches. Thus, a chamber might be fitted with 36 10-inch cartridges, or 12 30-inch units, or a combination of more than one size. The choice is the customer's, based on economics and ease of changeover; but filtration efficiency is not impaired, regardless of cartridge size.



### FEATURES

- Full 2½" O.D. provides 3.5 square feet of filter area per 10" length
- Precision wound
- Micron accuracy tested
- Wide selection of media material, cartridge lengths and micron ratings
- Excellent chemical resistance
- Fits any D.O.E. style vessel

### BENEFITS

- Improve finished goods quality, and minimize maintenance and rework with longer continuous high-flow operation
- Save money with lower cost, high surface area
- Reduce inventory with "just-in-time" scheduled releases

### POLYPROPYLENE w/POLYPROPYLENE CORE For good chemical resistance

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH*	STOCK STATUS
01U10U	1	10"	S
01U20U		20"	S
01U30U		30"	S
003U4U	3	4"	S
003U6U		6"	S
03U10U		10"	S
03U20U		20"	S
03U30U		30"	S
03U40U		40"	N/S
005U4U		5	4"
05U10U	10"		S
05U20U	20"		S
05U30U	30"		S
05U40U	40"		N/S
010U4U	10		4"
010U6U		6"	N/S
10U10U		10"	S
10U20U		20"	S
10U30U		30"	S
015U4U		15	4"
015U6U	6"		S
15U10U	10"		S
15U20U	20"		S
15U30U	30"		S
15U40U	40"		S

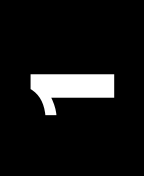
MODEL	MICRON RETENTION RATING	NOMINAL LENGTH*	STOCK STATUS
20U10U	20	10"	S
20U20U		20"	S
20U30U		30"	S
030U4U	30	4"	S
030U6U		6"	S
30U10U		10"	S
30U20U		20"	S
30U30U		30"	S
50U10U		50	10"
50U20U	20"		S
50U30U	30"		S
50U40U	40"		N/S
75U10U	75	10"	S
75U20U		20"	N/S
75U30U		30"	N/S
99U10U	100	10"	S
99U20U		20"	S
99U30U		30"	S

**NOTE:** S = Stock cartridges  
N/S = Non-stock cartridges

\* 9¾", 19¾" and 29¾" cartridges are available.



# MAXI-DEPTH WOUND FILTER CARTRIDGES cont'd



## BLEACHED COTTON w/POLYPROPYLENE CORE

Free of "sizing" and yarn "finish" substances.  
Meets FDA regulations for potable water.

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	STOCK STATUS
001C4U	1	4"	N/S
001C6U		6"	N/S
01C10U		10"	N/S
01C20U		20"	N/S
01C30U		30"	N/S
003C6U	3	6"	N/S
03C10U		10"	N/S
03C20U		20"	N/S
03C30U		30"	N/S
03C40U	40"	N/S	
05C10U	5	10"	S
05C20U		20"	N/S
05C30U		30"	N/S
010C6U	10	6"	N/S
10C10U		10"	S
10C20U		20"	N/S
10C30U		30"	N/S
015C4U	15	4"	N/S
015C6U		6"	S
15C10U		10"	S
15C20U		20"	S
15C30U		30"	N/S
15C40U		40"	N/S
20C10U	20	10"	S
20C20U		20"	N/S
20C30U		30"	N/S
030C6U	30	6"	N/S
30C10U		10"	S
30C20U		20"	N/S
30C30U		30"	N/S
50C10U	50	10"	S
50C20U		20"	N/S
50C30U		30"	N/S
50C40U		40"	N/S
75C10U	75	10"	S
75C20U		20"	S
75C30U		30"	N/S
99C10U	100	10"	S
99C20U		20"	N/S
99C30U		30"	N/S

## BLEACHED COTTON w/TINNED STEEL CORE

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	STOCK STATUS
05C10T	5	10"	S
10C10T	10		S
15C10T	15		S
30C10T	30		S
50C10T	50		S
75C10T	75		S
99C10T	100		S

## UNBLEACHED COTTON w/TINNED STEEL CORE

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	STOCK STATUS
05B10T	5	10"	N/S
05B20T		20"	
05B30T		30"	
15B10T	15	10"	
15B20T		20"	
15B30T		30"	
30B10T	30	10"	
30B20T		20"	
30B30T		30"	
50B10T	50	10"	
50B20T		20"	
50B30T		30"	
99B10T	100	10"	
99B20T		20"	
99B30T		30"	

**NOTE:** S = Stock cartridges  
N/S = Non-stock cartridges

Consult Sales Dept. for other filter media, core materials, diameters, lengths and micron ratings.

### MODEL NUMBER IDENTIFICATION

Example of Model Number: **10 U 10 U C -ECS**

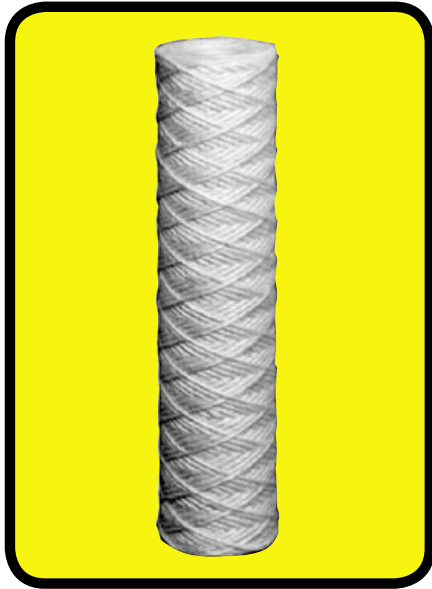
NOMINAL MICRON RATING	MEDIA MATERIAL	NOMINAL LENGTH	CORE MATERIAL	CORE COVER	EXTENDED CORE
1	B - Unbleached cotton	4 (3-7/8")	U - Polypropylene	None - No symbol	None - No symbol
3	C - Bleached cotton	6 (5-7/8")			
5	CU - Carbon & Polypropylene	8 (7-7/8")	S - 316SS	C - Cover compatible with media	ECU - Polypropylene
10	G - Glass fiber (Unbaked)	9.8 (9-3/4")			
15	H - Hi-Perf	10 (10")	A - 304SS		ECS - 316 SS
20	K - Polyester	19.8 (19-3/4")			
30	N - Nylon	20 (20")	T - Tinned Steel		EPS - One piece polypropylene spring & top seal
50	O - Orlon®	29.8 (29-3/4")			
75		30 (30")			
99 (100)	Orlon is a registered trademark of DuPont.	40 (40")			



**HI-PERF**

**FOR CHROMIC / SULFURIC / NITRIC ACIDS**

HI-PERF filter cartridges are constructed of proprietary materials which are specifically designed for chrome plating applications, nitric and sulfuric acid solutions. They are equally well suited for aggressive solvents and bases.



MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	STOCK STATUS
05H10U	5	10	S
05H20U		20	N/S
05H30U		30	N/S
05H40U		40	N/S
15H10U	15	10	S
15H20U		20	N/S
15H30U		30	N/S
15H40U		40	N/S
30H10U	30	10	N/S
30H20U		20	
30H30U		30	
30H40U		40	
50H10U	50	10	N/S
50H20U		20	
50H30U		30	
50H40U		40	
99H10U	100	10	N/S
99H20U		20	
99H30U		30	
99H40U		40	

**GLASS FIBER**

These cartridges resist all strong oxidizing acids (except hydrofluoric). Especially suitable for hot chromic acid and chrome etch solutions. Glass fiber cartridges can be used at higher temperatures than any of the other fiber type filter media. Glass fiber offers the additional advantage of being impervious to highly corrosive agents. Cartridges are unbaked on a polypropylene core and include a woven glass fiber core cover. Max. 200°C).

2-1/2" nominal diameter x 10". Minimum order carton of 30.

MODEL	MICRON RETENTION RATING	LENGTH
5G10UC	5	10"
5G20UC		20"
5G30UC		30"
20G10UC	20	10"
20G20UC		20"
20G30UC		30"



**HI-DENSITY COTTON and POLYPROPYLENE**

**COTTON (.5 micron organic free)**

Wound on a polypropylene core with a hemp core cover. Offers a 0.5 micron (nominal) retention. Free of sizing agents, it is ideal for ultra clean water for the electronics industry and many plating solutions. 1 GPM aqueous flow per 10" length @ 5 PSI pressure drop. (3.78 LPM @ .35 kg/cm<sup>2</sup>)

MODEL
C0.5A10UH-2

2-1/2" nominal diameter x 10". 30 per carton. Minimum order 30.

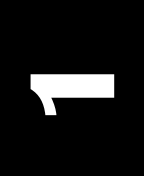


**POLYPROPYLENE (.5 micron)**

Wound on a corrosion resistant polypropylene core with a polypropylene core cover. Offers a 0.5 micron (nominal) retention. For efficient filtration of plating solutions for electronics. 1 GPM aqueous flow per 10" length @ 2 PSI pressure drop. (3.78 LPM @ .14 kg/cm<sup>2</sup>)

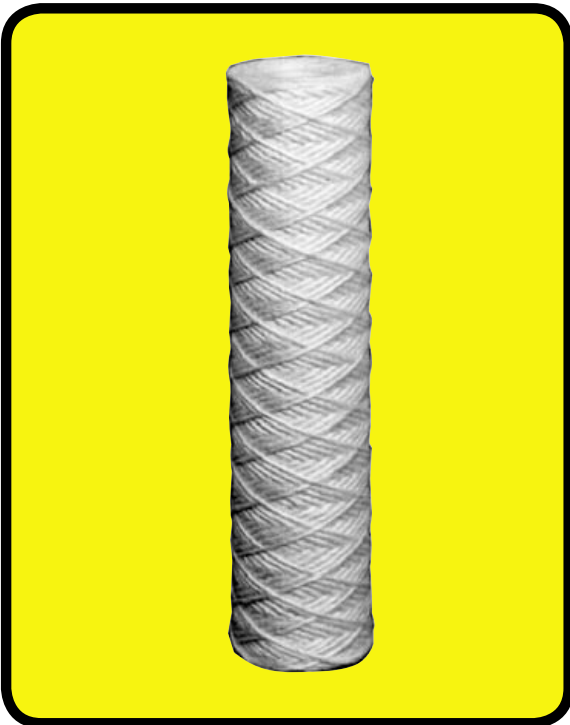
MODEL
U0.5A10UC

2-1/2" nominal diameter x 10". 30 per carton. Minimum order 30.



## WATER / ACIDS / BASES

New Valuwound cartridges offer high quality and value in a polypropylene depth filter. Designed for excellent chemical resistance and efficient long life particle removal, these cartridges are the perfect choice for a wide range of applications.



### FEATURES

- High quality polypropylene — polypropylene core
- Precision wound
- Micron accuracy tested
- Available 1 - 100 micron rating
- Nominal 2<sup>3</sup>/<sub>8</sub>" O.D.
- Continuous molded cores in 10", 20", 30" or 40" lengths.
- Excellent temperature and chemical compatibility
- Economically priced

MICRON	LENGTH	MODEL	STOCK STATUS
1	10	1PP10	N/S
	20	1PP20	
	30	1PP30	
	40	1PP40	
3	10	3PP10	N/S
	20	3PP20	
	30	3PP30	
	40	3PP40	
5	10	5PP10	N/S
	20	5PP20	
	30	5PP30	
	40	5PP40	
10	10	10PP10	N/S
	20	10PP20	
	30	10PP30	
	40	10PP40	
15	10	15PP10	N/S
	20	15PP20	
	30	15PP30	
	40	15PP40	

MICRON	LENGTH	MODEL	STOCK STATUS
20	10	20PP10	N/S
	20	20PP20	
	30	20PP30	
	40	20PP40	
30	10	30PP10	N/S
	20	30PP20	
	30	30PP30	
	40	30PP40	
50	10	50PP10	N/S
	20	50PP20	
	30	50PP30	
	40	50PP40	
75	10	75PP10	N/S
	20	75PP20	
	30	75PP30	
	40	75PP40	
100	10	100PP10	N/S
	20	100PP20	
	30	100PP30	
	40	100PP40	

**NOTE:** S = Stock cartridges  
N/S = Non-stock cartridges

**CARTRIDGE ORDERING INFORMATION**

M-109K-2



- Use Model Number to order.
- Stock cartridges are priced in "Minimum Quantity" column and are available for immediate delivery.
- Prices other than "Minimum Quantity" prices are for carton quantities (or as specified).
- For larger quantities, consult SERFILCO Sales Dept. for quantity pricing.
- Enter a blanket order with scheduled releases to earn the lowest quantity price, plus gain "Just in time" delivery.

- Non-Stock cartridges may not be returned for credit.
- F.O.B. shipping point
- Prices and specifications subject to change without notice.

**TABLE A**

DEPTH CARTRIDGE PACKAGING				
LENGTH (in.)	4	6, 10	20, 30	40
CARTON QUANTITY	60	30	15	10
MINIMUM QUANTITY	6	6	5	5

**SUBSTITUTE CORE MATERIAL**

For Maxi-Depth and Purefybe wound filter cartridges.

**TABLE B**

TO SUBSTITUTE OTHER CORE MATERIAL	
Replace the last letter "U" or "T" of the Model Number with <b>A, S, U</b> or <b>T</b>	
TINNED STEEL -T TO:	
MATERIAL	
<b>S</b> - 316SS	
<b>A</b> - 304SS	
<b>U</b> - Polypro.	
POLYPROPYLENE -U TO:	
MATERIAL	
<b>S</b> - 316SS	
<b>A</b> - 304SS	
<b>T</b> - Tinned steel	

**TABLE C**

CORE COVER
ADD " <b>C</b> " AFTER CORE MATERIAL LETTER IN MODEL NUMBER

**TABLE D**

EXTENDED CENTER CORE	
MATERIAL	ADD TO MODEL NO.
316SS	-ECS
Polypropylene	-ECU
One piece polypropylene spring & top seal	-EPS

Consult Sales Dept. for other filter media, core materials, diameters, lengths and micron ratings. See Table E below.

**TABLE E – MODEL NUMBER IDENTIFICATION**

Example of Model Number: **10 U 10 U C -ECS**

NOMINAL MICRON RATING	MEDIA MATERIAL		NOMINAL LENGTH	CORE MATERIAL	CORE COVER	EXTENDED CORE
1	B - Unbleached cotton	P - Fibrillated polypropylene	4 (3-7/8")	U - Polypropylene	None - No symbol	None - No symbol
3	C - Bleached cotton	(Purefybe®)	6 (5-7/8")			
5	CU - Carbon & Polypropylene	R - Rayon	8 (7-7/8")	S - 316SS	C - Cover compatible with media	ECU - Polypropylene
10	G - Glass fiber (Unbaked)	U - Polypropylene (Wound & Polyspun®)	9.8 (9-3/4")			
15	H - Hi-Perf	W - Potable water polypropylene	10 (10")	A - 304SS		ECS - 316 SS
20	K - Polyester		19.8 (19-3/4")			
30	N - Nylon		20 (20")	T - Tinned Steel		EPS - One piece polypropylene spring & top seal
50	O - Orion®		29.8 (29-3/4")			
75			30 (30")			
99 (100)		Orlon is a registered trademark of DuPont.	40 (40")			



4" DIAMETER x 9¾" LONG

Maxi-Wind cartridges provide extended solids loading at greater efficiency. Their dirt holding capacity is equivalent to 10 square ft. (.93m²) of surface filtration. They are designed for maximum solids loading at a recommended

flow rate of 10 U.S. GPM (38 LPM).

For Model GPO10-1 filter chambers and replacement for original equipment cartridges.

POLYPROPYLENE w/POLYPROPYLENE CORE
For good chemical resistance

Table with 2 columns: MODEL, MICRON RETENTION RATING. Rows include 0.5U9.8U4, 1U9.8U4, 5U9.8U4, 10U9.8U4.

Minimum order carton of 10.

PUREFYBE® (Fibrillated polypropylene) w/POLYPROPYLENE CORE

Wound of fibers free of "sizing" and yarn "finish" substances

Table with 2 columns: MODEL, MICRON RETENTION RATING. Rows include 5P9.8U4, 10P9.8U4, 25P9.8U4, 50P9.8U4, 99P9.8U4.

Minimum order carton of 10.



4" DIAMETER x 18" LONG

These cartridges provide a dirt holding capacity equivalent to 18 sq. ft. of surface filtration. They are designed for maximum solids loading at a recommended flow rate of 18 GPM (68 LPM). For Models (718), CB Filtration Chambers, and as replacement for original equipment cartridges.

UNBLEACHED COTTON FOR OILS, SOLVENTS & SEMI-AQUEOUS CLEANERS

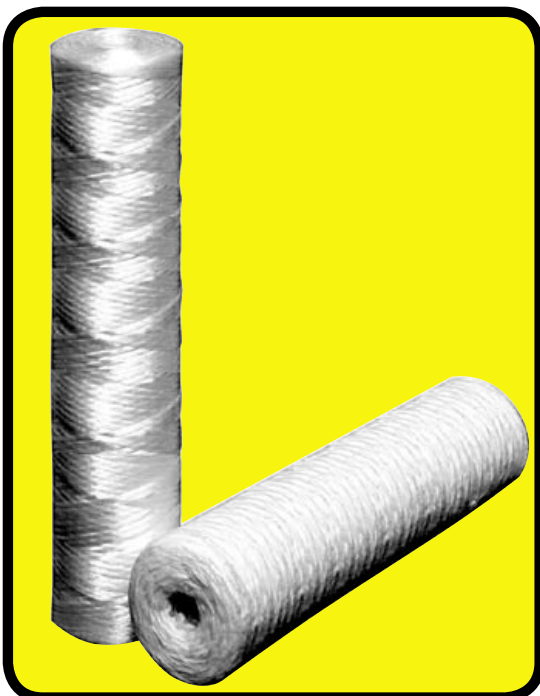
Table with 2 columns: MODEL, MICRON RETENTION RATING. Rows include 1B18A4, 3B18A4, 5B18A4, 10B18A4, 20B18A4, 30B18A4.

Minimum order carton of 5.

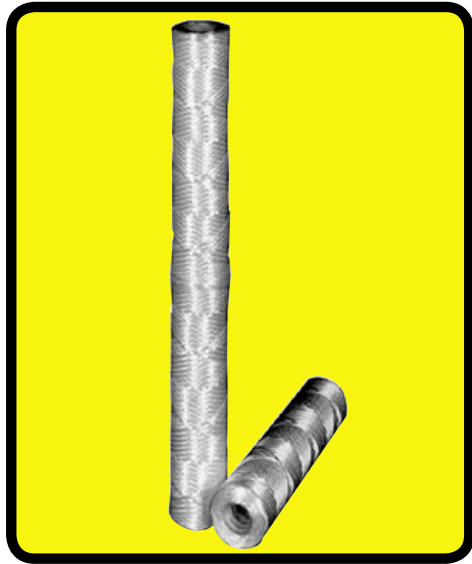
POLYPROPYLENE FOR GOOD CHEMICAL RESISTANCE

Table with 2 columns: MODEL, MICRON RETENTION RATING. Rows include 1U18A4, 3U18A4, 5U18A4, 10U18A4, 20U18A4, 30U18A4.

Minimum order carton of 5.







Free of extractables, lubricants, binders, anti-static and sizing agents.

**APPLICATIONS**

Plating Solutions  
Electronics  
Coatings

Photographics  
PC Board Mfg.  
Chemicals

D.I. & Tap Water  
Pharmaceuticals

- **100% Pure polypropylene**  
with polypropylene center core
- **Fibrillated fiber, organic-free, non-migrating**  
A smooth, firm filter media that can be reused
- **High temperature performance**  
Plating solutions and most chemicals to 200°F (93°C)
- **Length to fit any chamber**  
10", 20", 30" and 40" x 2½" nominal O.D.
- **Selective depth filtration**

Purefybe is an all polypropylene cartridge wound of fibers free of extractables. It is designed for filtration of electroforming, precious metals and all other plating solutions or applications requiring organic-free filter media. It is also recommended for gelatinous precipitates such

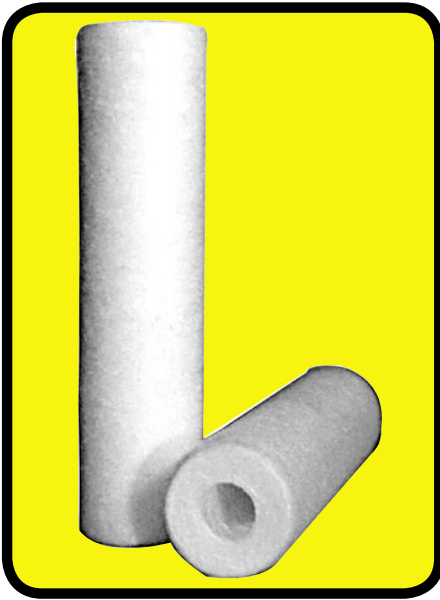
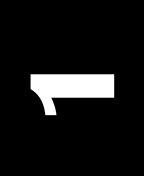
as iron and aluminum hydroxides which can be dissolved with acids.

Enter a blanket order with scheduled releases to earn the lowest quantity price, plus gain "**Just in time**" delivery.

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	STOCK STATUS
01P10U	1	10"	N/S
01P20U		20"	N/S
01P30U		30"	N/S
003P6U	3	6"	N/S
03P10U		10"	N/S
03P20U		20"	N/S
03P30U		30"	N/S
03P40U		40"	N/S
005P4U	5	4"	N/S
05P10U		10"	S
05P20U		20"	S
05P30U		30"	S
10P10U	10	10"	N/S
10P20U		20"	N/S
10P30U		30"	N/S

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	STOCK STATUS
15P10U	15	10"	N/S
15P20U		20"	N/S
15P30U		30"	N/S
20P10U	20	10"	N/S
20P20U		20"	N/S
20P30U		30"	N/S
25P10U	25	10"	S
25P20U		20"	S
25P30U		30"	S
50P10U	50	10"	S
50P20U		20"	S
50P30U		30"	S

**NOTE:** S = Stock cartridges  
N/S = Non-stock cartridges



Free of resins, lubricants,  
binders & anti-static agents

APPLICATIONS

Plating solutions / Potable water  
Tap & D.I. water / Coatings  
Electronics / Photographics  
FDA Approved for food contact applications

- **100% Pure polypropylene**  
Extruded for structural strength without center core
- **High temperature performance**  
Plating solutions and most chemicals to 140°F (60°C)  
Water to 212°F (100°C)
- **Unique fiber bonding**  
Four to five hundred layers of melt-bonded polypropylene fiber
- **Length to fit any chamber** -9.75", 10", 20", or 30"
- **Selective depth filtration** - 1, 5, 10, 20, 50 or 75 micron

SERFILCO POLYSPUN depth filter cartridges are individually packaged to provide 1 to 75 micron high purity filtration and an organic free, pure polypropylene media. Their outstanding chemical resistance, fiber free

melt-bonded media and excellent flow characteristics present a filter cartridge that meets the tough requirements of today's technology.

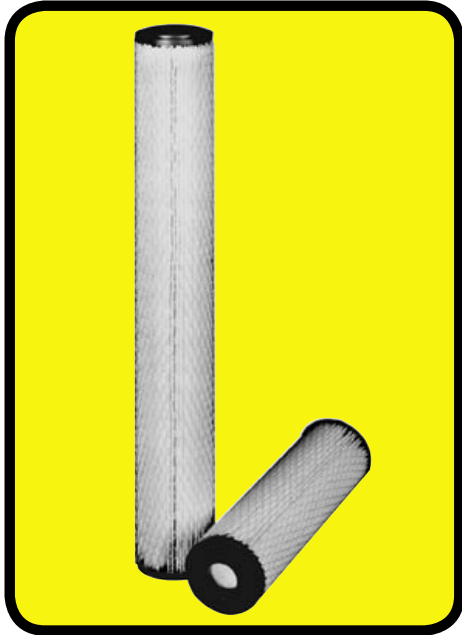
MODEL	MICRON RETENTION RATING	NOMINAL LENGTH (In.)	STOCK STATUS
01U9.8 01U10 01U20 01U30	1	9.75 10 20 30	S
05U9.8 05U10 05U20 05U30	5	9.75 10 20 30	S
10U9.8 10U10 10U20 10U30	10	9.75 10 20 30	S

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH (In.)	STOCK STATUS
20U10 20U20 20U30	20	10 20 30	S
30U10 30U20 30U30	30	10 20 30	S
50U10 50U20 50U30	50	10 20 30	S
75U10 75U20 75U30	75	10 20 30	S

NOTE: S = Stock cartridges

MICRON	1	5	10	20	30-75
PRESSURE DROP (PSI) **	5	2	1	.7	.5

\*\* Aqueous flow at 5 U.S. GPM (19 LPM) per 10" length.



**Free of resins, binders or surfactants, cleanable and reusable**

Plating solutions / Photographic Inks & oils / Chemicals / Water Coatings / PC board mfg.

- **Self-bonded polypropylene media**  
Vinyl end caps, polypropylene center core and outer net  
(See a chemical resistance chart)
- **High temperature performance**  
To 180°F (82°C) @ 20 PSID
- **Pleated for extended surface area**  
4 sq. ft. (.37 sq. meters) each 10" length
- **Length to fit any chamber**  
10", 20", 30", 40" x 2-5/8" diameter
- **Selective filtration**  
1, 5, 10, 25 and 50 micron (Nominal)
- **Individually packaged**

SERFILCO POLY-SERF pleated filter cartridges are composed of continuous polypropylene microfibers self-bonded by a unique process that controls media uniformity and density.

POLY-SERF cartridges provide efficient particle removal from aqueous and non-aqueous solutions with outstanding contaminant holding capacity. They provide excellent chemical resistance, high flow rates at low pressure drop and can be washed for reuse.

MODEL	MICRON RETENTION RATING	LENGTH
PL-U1U10U	1	10"
PL-U1U20U		20"
PL-U1U30U		30"
PL-U1U40U		40"
PL-U5U10U	5	10"
PL-U5U20U		20"
PL-U5U30U		30"
PL-U5U40U		40"
PL-U10U10U	10	10"
PL-U10U20U		20"
PL-U10U30U		30"
PL-U10U40U		40"

MODEL	MICRON RETENTION RATING	LENGTH
PL-U25U10U	25	10"
PL-U25U20U		20"
PL-U25U30U		30"
PL-U25U40U		40"
PL-U50U10U	50	10"
PL-U50U20U		20"
PL-U50U30U		30"
PL-U50U40U		40"

\* Minimum order quantity 5.  
\*\* 40 per carton - 10"  
20 per carton - 20", 30", 40"

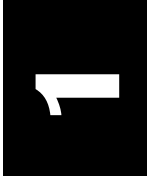
NOTE: For FDA acceptable materials add -W to end of Model Number. Minimum quantity 30.

**SUPERIOR FLOW CHARACTERISTICS AT LOW PRESSURE DROP.**

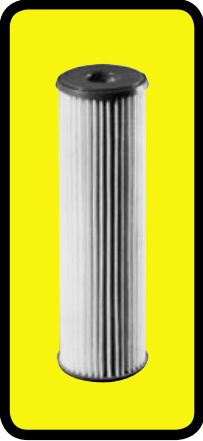
WATER FLOW RATE AT 10 GPM (38 LPM) PER 10" LENGTH	
MICRON	PSID PRESSURE DIFFERENTIAL
1	0.4
5	0.3
10	0.2



# PLEATED FILTER CARTRIDGES



## POLYESTER



### Cleanable, reusable in most applications:

This pleated polyester cartridge can be rinsed off and reused a number of times. Center core and end caps are PVC. The center core, end caps and media are all thermally bonded for long life in reusable applications up to 80 PSID. Good for pH 3 to 11. Flow rate is 10 U.S. GPM per 10" length @ 2.5 PSI (38 LPM @ .18 kg./cm<sup>2</sup>) pressure drop. Use at 35° to 160°F (0° to 71°C). 2¾" diameter x 9¾", 19½" or 29¼" long.

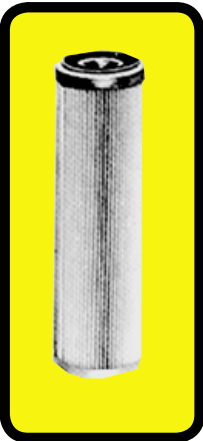
**Potable water / Process water  
Chemicals / Photographic  
Inks / Oils / Waste treatment**

- **High flow rates**  
to 10 U.S. GPM (38 LPM) per 10" length
- **Thermally bonded for long life**

MODEL	LENGTH	AREA	
		FT <sup>2</sup>	m <sup>2</sup>
PL*-P__x 9¾"	9¾"	4	.37
PL*-P__x 19½"	19½"	8	.74
PL*-P__x 29¼"	29¼"	12	1.1

\* Insert micron size desired — 1, 5, 20 or 50.  
End cap color code: Tan 1µ, white 5µ, blue 20µ, yellow 50µ. 24 cartridges/case.  
Minimum order 6 cartridges.

## MICROFIBERGLASS AND POLYESTER



### Large surface area for filtering:

This cartridge assures fine filtration and high flow rates. The media is constructed of microfiber glass and polyester (pleated for maximum area). The center core is available in glass fiber reinforced polypropylene or 304 stainless steel. End cap gaskets are Buna-N. Unique 3-layer construction gives pre-filtration plus inner mechanical strength. Use polypropylene core cartridges at temperatures up to 68°F (20°C), stainless steel core cartridges to 250°F (121°C). 2½" diameter.

**Chemicals / Cosmetics / Oils  
Magnetic coatings / Electronics  
Photographic / Pharmaceuticals**

MICRON RATING		WATER FLOW RATE PER 10" LENGTH			
NOM.	ABS.	@ .5 PSID (.035 kg/cm <sup>2</sup> D)		@ 1 PSID (.07 kg/cm <sup>2</sup> D)	
		U.S GPM	LPM	U.S GPM	LPM
.45	2	3	11	6	23

### Polypropylene Core

MODEL	MICRON	AREA		LENGTH
	NOM.	FT. <sup>2</sup>	m <sup>2</sup>	
PL-PG.45x10U	.45	8	.74	10"
PL-PG.45x20U		16	1.4	20"
PL-PG.45x30U		24	2.2	30"

### 304 Stainless Steel Core

MODEL	MICRON	AREA		LENGTH
	NOM.	FT. <sup>2</sup>	m <sup>2</sup>	
PL-PG.45x10S	.45	8	.74	10"
PL-PG.45x20S		16	1.4	20"
PL-PG.45x30S		24	2.2	30"

# TRI-PLEATED FILTER CARTRIDGE

M-207T-2



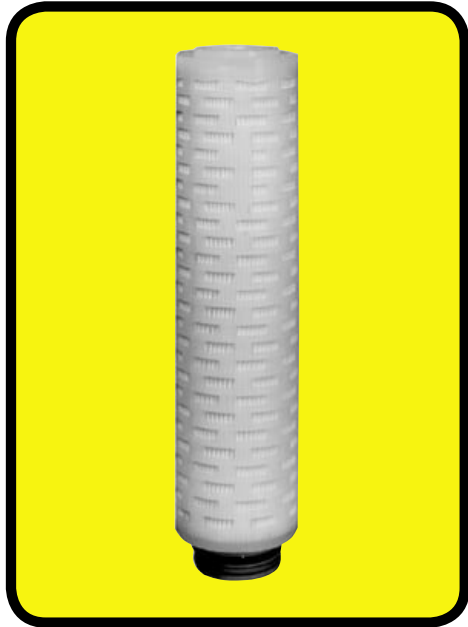
Polypropylene with polysulfone membrane

## APPLICATIONS

18 megohm D. I. water  
Electronics  
Pharmaceuticals

Food • Beverage  
Photographic  
Reagent grade chemicals

Distilled liquors  
Cosmetics  
R. O. pre-filter



- **Chemical compatibility**  
including solvents, acids and bases
- **With EPDM or Viton® elastomers**
- **Absolute pore size**  
0.1, 0.2 and 0.45 micron
- **Preflushed with 18 megohm pyrogen-free water prior to shipment**
- **Length: 10", 20", 30" or 40"**  
with double open end gaskets or single open end "O"-rings

A pleated polysulfone membrane whose pore size decreases gradually from 10 to 20 micron on the upstream side to the absolute rated 0.1, 0.2 or 0.45 micron on the downstream side. The membrane provides its own cast-in pre-filter to prevent premature loading and extend service life. Includes pleated polypropylene support and drainage layers, end caps, center core and protective outer cage. Cartridge is free of all organics and electrochemical

bonding. Standard end gaskets (DOE) and 222 "O"-rings (SOE) are ethylene propylene.\*\*

Each 10" length has 5½ sq. ft. (.51 sq. m) of filter area and will hold more than 150 grams of Arizona fine test dust. Cartridge will withstand water at 200°F (93°C) for extended periods without degradation. Maximum recommended differential pressure, 50 PSID (3.5 kg/cm²D). Cartridge is 2.6" diameter.

**TO ORDER** - Select rating, length and end seal.

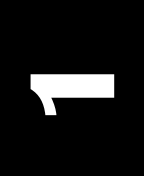
MODEL		ABSOLUTE MICRON RATING	FLOW PER 10" @ 1.0 PSID	
FLAT GASKETS DOE	222 "O"-RINGS SOE		GPM	LPM
PL-UPS.1x*UL	PL-UPS.1x*UL-2	0.1	2	7.6
PL-UPS.2x*UL	PL-UPS.2x*UL-2	0.2	4	15
PL-UPS.45x*UL	PL-UPS.45x*UL-2	0.45	6	23

\* Length. Specify 10", 20", 30" or 40".

\*\* For Viton elastomers, substitute **UV** for **UL** in Model No.



# TRI-PLEATED FILTER CARTRIDGE



Extended surface area for longer service life

## APPLICATIONS

D. I. water  
Electronics  
Photographic

Food • Beverage  
Solvents  
Pharmaceuticals

Cosmetics  
R. O. pre-filter  
Plating solutions



- **All polypropylene**  
with EPDM or Viton® elastomers
- **Chemical compatibility**  
including solvents, acids and bases
- **Nominal pore size**  
0.1, 0.45 and 1.0 micron
- **Absolute rated**  
1.0, 2.0 and 5.0 micron
- **Organic-free**  
no sizing or anti-static agents
- **Length: 10", 20", 30" or 40"**  
with double open end gaskets or  
single open end "O"-rings

All polypropylene filter cartridge constructed of ultra-fine diameter continuous filaments of polypropylene, formed into thermally bonded and pleated layers of filter media to provide particulate removal in the submicron range. Includes pleated pre-filter, end caps, center core and protective outer cage all of polypropylene. Cartridge is totally free of all sizing, anti-static agents and all organics. Standard end gaskets DOE (double open end) and 222 "O"-rings SOE (single open end) are ethylene propylene.\*\*

Maximum recommended operating temperature:  
140°F @ 60 PSID (60°C @ 4.2 kg/cm<sup>2</sup>D)  
180°F @ 10 PSID (82°C @ .7 kg/cm<sup>2</sup>D)

Maximum recommended operating differential pressure:  
60 PSID (4.2 kg/cm<sup>2</sup>D)

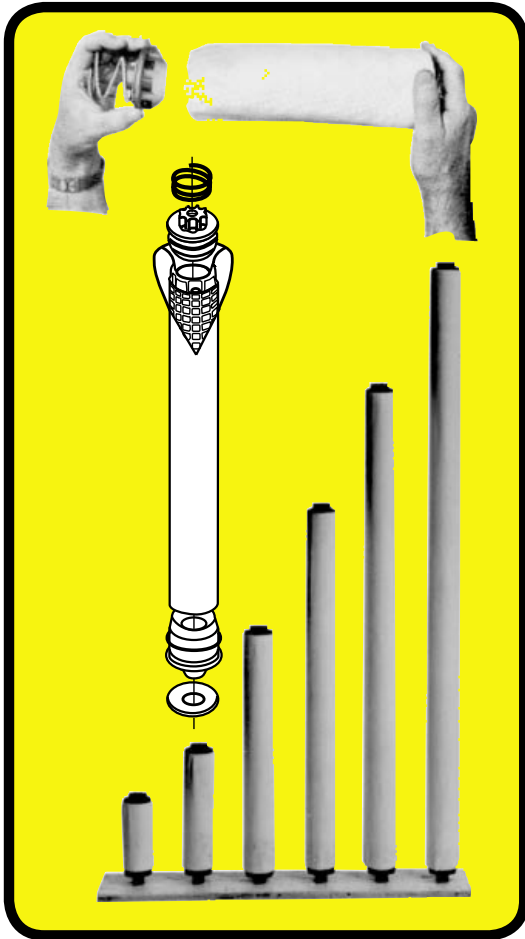
Cartridge is 2.7" diameter.

**TO ORDER** - Select rating, length and end seal.

MODEL		MICRON RATING		FILTER AREA		FLOW @ 1.0 PSID	
FLAT GASKETS DOE	222 "O"-RINGS SOE	NOM.	ABS.	PER 10" CARTRIDGE			
				FT. <sup>2</sup>	m <sup>2</sup>	GPM	LPM
PL-U.1x*_UL	PL-U.1x*_UL-2	0.1	1.0	4.3	.40	2.5	9.5
PL-U.45x*_UL	PL-U.45x*_UL-2	0.45	2.0	4.6	.43	9	34
PL-U1.0x*_UL	PL-U1.0x*_UL-2	1.0	5.0	4.9	.45	12	45

\* Length. Specify 10", 20", 30" or 40".

\*\* For Viton elastomers, substitute UV for UL in Model No.



## Economical alternative to disc-type filter

### FEATURES

- **Interchangeable**  
Sleeve cartridges are interchangeable with any regular cartridge of corresponding length and diameter.
- **CPVC and polypropylene construction**
- **15 micron seamless sleeve**  
Designed for precoating with all types and grades of filter aid to provide a high quality filtrate; however, may also be used without precoat.
- **Easy to clean**
- **Reusable**

### BENEFITS

- **Reduced operating costs**
- **Reduced disposal costs**

The SERFILCO Sleeve-Type Filter Cartridge may be used uncoated or with filter aid or filter aid with carbon. As the filters become dirt-laden, they may easily be backwashed, or the sleeves may be removed, rinsed or laundered and put back into service.

This unique design of filter cartridges will not only help reduce operating costs, but will simplify and speed up any pre-coat type filtration process.

Each filter cartridge consists of a polypropylene top and bottom seat, a polypropylene woven fabric sleeve, a polypropylene support mesh, a CPVC support column, EPDM "O"-rings and a vinyl coated spring to assure good sealing.

These filter cartridges can be quickly and easily assembled and re-assembled — no tools are required.

### CLEANABLE SLEEVE CARTRIDGES

SLEEVE LENGTH X 2-1/2" DIA.	SURFACE AREA SQ. FT.	FOR CHAMBER STYLE		REPLACEMENT SLEEVE ONLY
		SINGLE COLUMN	MULTIPLE COLUMN	
		PRICE CODE NUMBERS.		
10"	0.6	99-0701	99-0704	88-0161A
20"	1.2	99-0702	99-0705	88-0162A
30"	1.8	99-0703	99-0706	88-0163A
40"	2.4	99-0715	99-0707	88-0164A
50"	3.0	—	99-0708	88-0165A

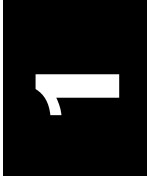
**OPTIONAL**

DESCRIPTION	PRICE CODE NO.
Viton® elastomers for sleeve assembly	O-VSL

TO ORDER:  
Use Price Code No.



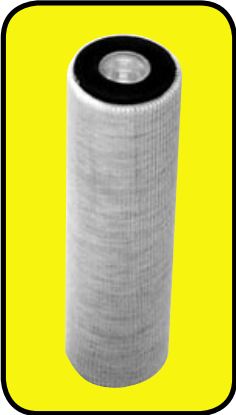
# CARBON CARTRIDGES PLATING



## Adsorptive purification for organic removal and filtration for particle removal

### ULTRA-CARB

#### Powdered carbon filter



These cartridges are designed for applications where maximum carbon surface area is desirable - as in "once through" fluid purification. High purity, pre-washed 99.5+% sulfur-free powdered carbon is bonded into a polyester

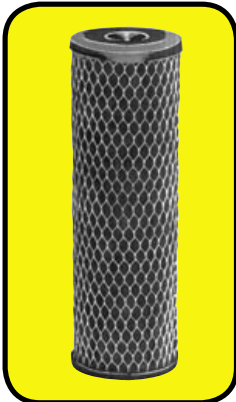
media formed over a high strength polypropylene core and surrounded by a white woven poly sleeve. End caps are EPDM. Maximum operating temperature 140°F. For 2½ U.S. GPM (9.5 LPM) per 10" length.

- 2-3/4" nominal dia. x 9.75" long ACM9.8
- 2-3/4" nominal dia. x 10" long ACM10
- 2-3/4" nominal dia. x 20" long ACM20

MODEL	WT. OF CARB.	CTN. QTY.
ACM9.8	5 oz.	20
ACM10	5 oz.	20
ACM20	10 oz.	12

### CARBO-FYNE P

#### Powdered carbon filter



Cartridge contains high purity, pre-washed sulfur-free, pulverized activated carbon with 7 micron depth filtration for long life. All non-metallic with polyethylene end caps, polyolefin gold net and polypropylene core. Maximum

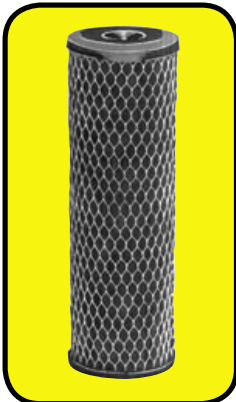
operating temperature 150°F (66°C). For 3 U.S. GPM (11 LPM) continuous or 1.5 U.S. GPM (5.7 LPM) batch transfer treatment per each 10" length.

- 2-3/4" nominal dia. x 4" long C4P
- 2-3/4" nominal dia. x 6" long C6P
- 2-3/4" nominal dia. x 10" long C10P
- 2-3/4" nominal dia. x 20" long C20P
- 2-3/4" nominal dia. x 30" long C30P
- 2-5/8" nominal dia. x 9.75" long C9.8P

MODEL	WT. OF CARB.	CTN. QTY.
C4P	1.6 oz.	60
C6P	2.4 oz.	30
C10P	4 oz.	30
C20P	8 oz.	30
C30P	12 oz.	30
C9.8P	4 oz.	30

### CARBO-FYNE PE

#### Powdered carbon filter electronics



Designed for purifying plating solutions used for electronics, memory discs, semi-conductors, etc. where solutions are to be free of organics and particles larger than two micron. All non-metallic with polyethylene end caps, polyolefin blue

net and polypropylene core. Cartridge contains high purity, pre-washed sulfur-free, pulverized activated carbon with 2 micron depth filtration for long life. Maximum operating temperature 150°F (66°C). Flow rate 1.5 U.S. GPM (5.7 LPM).

MODEL	WT. OF CARB.	CTN. QTY.
C10PE	6 oz.	30

\* Total minimum order of \$25.00 applies

## GRANULAR ACTIVATED CARBON ACTIVATED WITH STEAM FOR HIGH ADSORPTION CAPACITY

Available in 10 and 50 pounds drums

COAL BASED * HIGH MACRO POROSITY, MORE EASILY IMPREGNATED			COCONUT SHELL BASED * HIGH MICRO POROSITY & HARDNESS, LOW ASH CONTENT		
8 x 30 MESH STANDARD	LBS	PCN	12 x 30 MESH 99.5%+SULFUR FREE	LBS	PCN
	10	99-0992		10	99-0993
	50	99-0995		50	99-0996



# CARBON CARTRIDGES PLATING



## MINI-CANISTER P

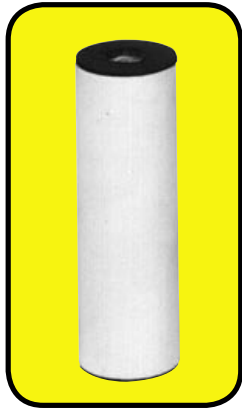
ABS/PVC canister with Saran® and screens

Features a twist-off end cap which permits easy filling with carbon or resin (not included). End cap screens retain contents. Maximum operating temperature is 160°F (71°C). Non-standard lengths available. Flow rates to 2 U.S. GPM (7.6 LPM) per each 10" length. For SERFILCO Series 'L' chambers or may be ordered with hose adapter for connection to filter system discharge hose.

To order granular carbon, refer to Bulletin R-102.  
To order resin, refer to Bulletin R-208.

MODEL	3" DIA. x LENGTH	WEIGHT OF CARBON
4ABS	4"	3 oz.
6ABS	6"	7 oz.
10ABS	10"	14 oz.
20ABS	20"	33 oz.
30ABS	30"	52 oz.
40ABS	40"	71 oz.

For Mini-Canister w/CPVC 1/2" hose adapter, add -H.5 to Model . . . Add \$5.75  
For Mini-Canister w/CPVC 3/4" hose adapter, add -H.75 to Model . . . Add \$5.75



## CARBONEX P

3 in 1 Granular carbon filter

Porous polyethylene outer shell which serves as a 50 micron prefilter houses granular activated 99.5+% sulfur-free carbon and encases a 3 micron polypropylene wound polishing filter

on a polypropylene core. Maximum operating temperature 150°F (66°C). EPDM gaskets. Flow rate 2 U.S. GPM (8 LPM) per each 10" length.

2-3/4" nominal dia. x 10" lg. CU10P  
2-3/4" nominal dia. x 20" lg. CU20P  
2-3/4" nominal dia. x 30" lg. CU30P

MODEL	WEIGHT OF CARBON	CARTON QUANTITY.
CU10P	7 oz.	25
CU20P	14 oz.	12
CU30P	21 oz.	12



## CARBO-WIND P

3 in 1 Granular carbon filter

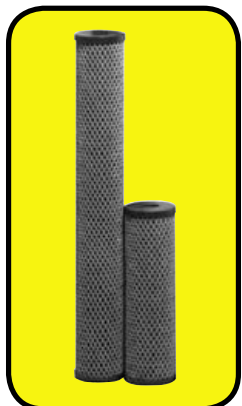
Polypropylene outer winding serves as a 50 micron prefilter which houses granular activated 99.5+% sulfur-free carbon followed by a 3 micron polypropylene wound polishing filter

on a polypropylene core. Maximum operating temperature 200oF (93oC). Flow rate 2½ U.S. GPM (9.5 LPM) per each 10" length.

2-3/4" nominal dia. x 10" lg. CU10UP  
2-3/4" nominal dia. x 20" lg. CU20UP

MODEL	WEIGHT OF CARBON	CARTON QUANTITY.
CU10UP	5 oz.	20
CU20UP	10 oz.	12

\*Total minimum order of \$25.00 applies



## MAXI-CARB PE

Powdered carbon filter electronics

Constructed like Carbo-Fyne PE except oversized for maximum carbon capacity. Maybe installed in single or triple canister chambers

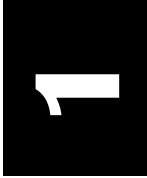
and are interchangeable in all SERFILCO carbon chambers which use the 528 & 548 refillable bulk granular carbon canisters.

5" nominal dia. x 28" long  
5" nominal dia. x 48" long

MODEL	WEIGHT OF CARBON	FLOW (U.S. GPM)	CARTON QUANTITY.
C528PE	48 oz.	3 - 5	6
C548PE	90 oz.	5 - 7	6



# CARBON CARTRIDGES WATER



***Taste, odor, color and particle removal***  
***Materials in these cartridges meet FDA regulations for potable water***

### ULTRA-CARB W



#### Powdered carbon filter

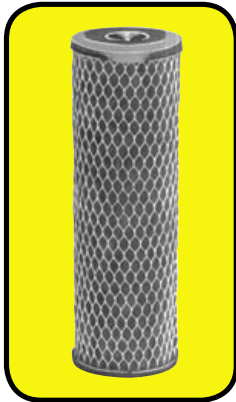
Materials in these cartridges meet F.D.A. regulations for drinking (potable) water, beverages and foods.

High purity, pre-washed 99.5+% sulfur-free powdered carbon is bonded into a polyester media formed over a high strength polypropylene core and surrounded by a white woven poly sleeve. End caps are EPDM. Maximum operating temperature 140°F. For 2½ U.S. GPM (9.5 LPM) per 10" length.

MODEL	WEIGHT OF CARBON	CARTON QUANTITY
ACM9.8	5 oz.	20
ACM19.8	10 oz	12

2-3/4" nominal dia. x 9.75" long ACM9.8  
2-3/4" nominal dia. x 19.75" long ACM19.8

### CARBO-FYNE W



#### Powdered carbon filter

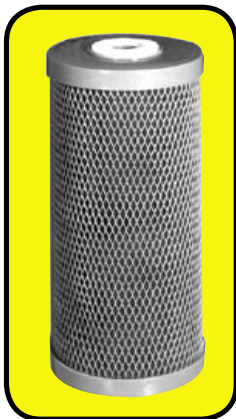
Pre-washed, pulverized activated carbon, removes or substantially reduces chlorine taste and organic related odors and colors. The 10 micron retention assures turbidity-free water.

Polypropylene core with polyethylene end caps and polyolefin white net. Flow rate to 3 U.S. GPM (11 LPM) per each 10" length.

MODEL	WEIGHT OF CARBON	CARTON QUANTITY
C4W	1.6 oz.	60
C10W	4 oz.	30
C20W	8 oz.	30

2-3/4" nominal dia. x 4" long C4W  
2-3/4" nominal dia. x 9.75" long C10W  
2-3/4" nominal dia. x 19.75" long C20W

### MAXI-CARB W



#### Powdered carbon filter

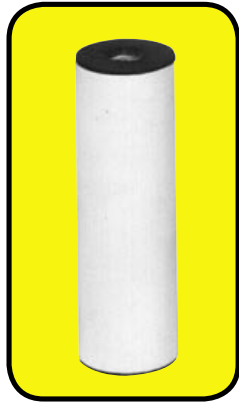
For absorption of undesirable contaminants including chlorine and many organics. Serves as an effective sediment removal filter down to the 1 - 2 micron range. Non-metallic, polyethylene end caps w/rubber gaskets, polyolefin blue net and polypropylene core. Cartridge contains high purity pre-washed sulfur-free, pulverized activated carbon. Maximum operating temperature 180oF (82oC). Flow rate 3 U.S. GPM (11 LPM).

MODEL	WEIGHT OF CARBON	CARTON QUANTITY
C510W	17 oz.	12

4 5/8" nominal dia. x 9-3/4" long.

Designed to fit SERFILCO GPO10-1 chamber.

**PHOTOPROCESSING CARTRIDGES**



**CARBONEX W**

*3 in 1 Granular carbon filter*

Contains extra high quality granular activated carbon designed to remove or substantially reduce chlorine and other chemicals, unpleasant tastes, odors and sediment from water. Three stage filtration: (1) 50 micron white polyethylene shell prefilter; (2) activated carbon adsorption bed; (3) polypropylene 3 micron depth wound polishing filter on a polypropylene core. EPDM end gasket / caps. Flow rate 2 U.S. GPM (7.6 LPM) per each 10" length.

MODEL	WEIGHT OF CARBON	CARTON QUANTITY
CU9.8W	7 oz.	25
CU19.8W	14 oz.	12

2-3/4" nominal dia. x 9-3/4" lg. CU9.8W  
2-3/4" nominal dia. x 19-3/4" lg. CU19.8W



**CARBO-WIND W**

*3 in 1 Granular carbon filter*

Provides one-step removal of sediment, chlorine, chemicals, unpleasant tastes and odor. The depth wound polypropylene prefilter is designed to give maximum sediment removal. It encases a bed of extra high quality granular activated carbon followed by a 3 micron depth wound polishing filter on a polypropylene core. Maximum operating temperature 200°F (93°C). Flow rate 2½ U.S. GPM (9.5 LPM) per each 10" length.

MODEL	WEIGHT OF CARBON	CARTON QUANTITY
CU9.8UW	5 oz.	20
CU19.8UW	10 oz.	12

2-3/4" nominal dia. x 9-3/4" lg. CU9.8UW  
2-3/4" nominal dia. x 19-3/4" lg. CU19.8UW

\* Total minimum order of \$25.00 applies



**MINI-CANISTER W**

*Refillable for granular carbon*

Features a twist-off end cap which permits easy filling with carbon or resin (not included). End cap screens retain contents. Carbon is used to remove organic substances which cause taste, odor and color in water. Maximum operating temperature is 160°F (71°C). Non-standard lengths available. Flow rates to 2 U.S. GPM (7.6 LPM) per each 9-3/4" length.

ABS / PVC canister. Saran end screens. Designed to fit SERFILCO GPO and GSO chambers.

MODEL	WEIGHT OF CARBON	CARTON QUANTITY
9ABS	9-3/4"	13 oz.
19ABS	19-3/4"	32 oz.

**CARBON REFILL**

Industry has found that granulated activated carbon from SERFILCO is a simple, cost-effective method to purify a wide variety of fluids. Because of its porosity, fluids can flow through the adsorptive granular carbon eliminating the need for mixing powdered carbon and its subsequent clean-up. The fact that the carbon can be in a separate chamber provides flexibility in adapting to an existing system or process.

**GRANULAR ACTIVATED CARBON**

ACTIVATED WITH STEAM FOR HIGH ADSORPTION CAPACITY  
Available in 10 and 50 pound drums

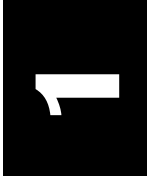
COAL BASED * High macro porosity, more easily impregnated	COCONUT SHELL BASED * High micro porosity & hardness, low ash content
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8 x 30 MESH STANDARD	LBS	PCN	12 x 30 MESH 99.5% + SULFUR FREE	LBS	PCN
	10	99-0992		10	99-0993
	50	99-0995		50	99-0996



# STAINLESS STEEL FILTER CARTRIDGES

M-309D-2



- Choose from sintered porous cylinder or pleated wire mesh
- Excellent chemical resistance  
Cleanable and reusable  
10", 20", 30" lengths
- High flow rates 25 or 30 GPM per 10" length
- High service temperature to 400° F
- High operating pressure to 50  $\Delta$  P

## SINTERED POROUS CYLINDER

Porous media is constructed of grade 316 stainless steel powder, precompressed, formed and heated to sintering temperature in a controlled atmosphere. End supports are also 316 stainless steel. This manufacturing technique offers:

- Precise thickness control to  $\pm .005"$ .
- A more uniform porous structure and permeability.
- Each particle bonded to several others, thereby leaving no loose particles to migrate into effluent stream.

Result is a reusable, quality filter cartridge with consistent pore size at the eight retention ratings offered.

### SPECIFICATIONS —

**Dimensions:** 2.5" Dia. x 10", 20" or 30" long  
**End style:** DOE  
**Filter area:** .5 ft.<sup>2</sup> per 10" length  
**Maximum pressure:** 50  $\Delta$  P  
**Maximum temperature:** Limited by gasket  
**Standard gaskets:** EPDM (to 250° F)

### TO ORDER

MODEL	GPM **	MICRON
PS.2X * L	.1	.2
PS.5X * L	.3	.5
PS2X * L	2	2
PS5X * L	3	5
PS10X * L	18	10
PS20X * L	30	20
PS40X * L	30	40
PS100X * L	30	100

\* Length: Specify 10", 20" or 30"

\*\* Flow per 10" length at 2  $\Delta$  P water.  
Maximum recommended is 30 GPM per cartridge.

### OPTIONAL

GASKETS	MAX. TEMP.	CHANGE 'L' in MODEL to
Viton®	400° F	V

## PLEATED WIRE MESH

Media is woven 304 stainless steel wire, pleated for additional filter area and strength, then welded to 304 stainless steel center rings and end supports. This manufacturing technique offers:

- Extended filter area for each 10" length.
- Rigid construction and uniform porosity.
- Positive-crimp end pleat seal prevents particle bypass into effluent stream.

Result is a reusable, quality filter cartridge with consistent pore size at the five retention ratings offered.

### SPECIFICATIONS —

**Dimensions:** 2.5" Dia. x 10", 20" or 30" long  
**End style:** DOE  
**Filter Area:** 10" cart. = 1.7 ft.<sup>2</sup>, 20" cart. = 3.6 ft.<sup>2</sup>, 30" cart. = 5.5 ft.<sup>2</sup>  
**Maximum pressure:** 50  $\Delta$  P  
**Maximum temperature:** Limited by gasket  
**Standard gaskets:** Buna-N (to 250° F)

Consult Sales Department for 316 SS construction.

### TO ORDER

MODEL	GPM **	MICRON
PWC40X * B	12	40
PWC75X * B	15	75
PWC100X * B	16	100
PWC150X * B	17	150
PWC230X * B	25	230

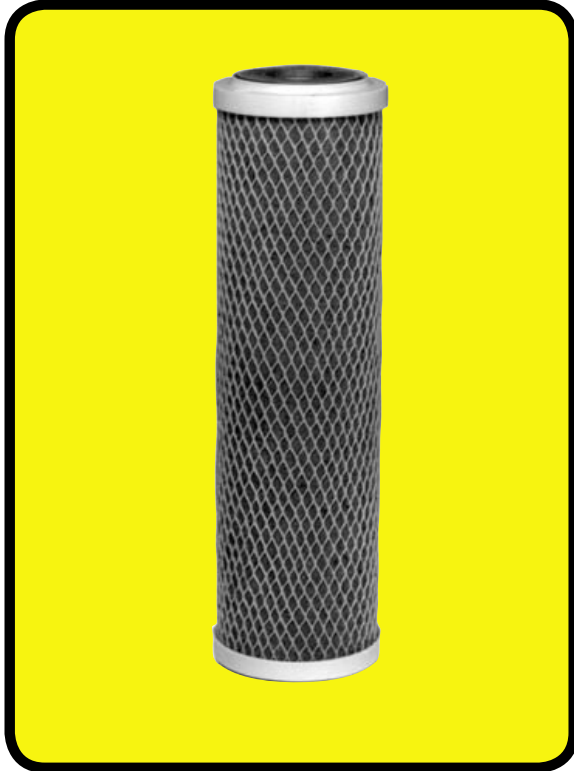
\* Length: Specify 10", 20" or 30"

\*\* Flow per 10" length at 2  $\Delta$  P water.  
Maximum recommended is 25 GPM per cartridge.

### OPTIONAL

GASKETS	MAX. TEMP.	CHANGE 'B' in MODEL to
Viton	400° F	V

Consult Sales Department for flow at other viscosities.



## FOR POTABLE WATER POWDERED ACTIVATED CARBON WITH ATS® LEAD REMOVAL SORBENT

- Contains Engelhard Corporation's ATS sorbent, a state-of-the-art ceramic lead removal matrix, along with a blend of premium performing, highly pulverized, activated carbon.
- Offers true-depth type filtration for fine sediment, 1 to 2 micron particle removal.
- Effectively removes both soluble and insoluble lead, foul tastes, odors and free chlorine.
- Is unaffected by pH or the presence of other ions including calcium, magnesium, iron and manganese.
- Bonds internally and irreversibly avoiding the potential hazard of a concentrated solution of lead "avalanching" into the treated water.
- Available in two lengths: 9¾" or 20".
- Constructed of molded polystyrene end caps with thermoplastic rubber gaskets, blue polyolefin outer net and a polypropylene center core "sandwiching" a blend of highly purified activated powdered carbon and ATS lead removal sorbent. Inner layer of heat fused polyolefin fiber media prevents carbon bleed-off.

The inert molecular sieve construction of the ATS material internally and irreversibly locks onto any lead in solution reducing the concentration to below U.S. EPA guidelines with a very short contact time. The ATS material works well in hard water as well as in the presence of iron, manganese, magnesium and calcium ions. It functions on the principle of chemically "absorbing" the lead ions rather than insolubilizing the lead and will not put aluminum, copper or zinc ions into the treated water.

The CLR Series has been evaluated against the test protocol as outlined in NSF standard #53 by a certified third-party laboratory. The results show that a standard 9¾" cartridge at 0.75 GPM will effectively reduce a 150 PPB spiked feed of lead to less than 10 PPB for 4000 gallons in a low pH, low alkalinity solution and for 3000 gallons in a high pH, high alkalinity solution.

### TO ORDER

MODEL	GPM
CLR10W	.5 - 1
CLR20W	1 - 2

Carton quantity: 12  
2¾" diameter x 9¾" or 20" long.



# FILTER CARTRIDGES INDUSTRIAL

*For all types of oil filtering — fuel, lube, hydraulic, cutting oils, quench, transformer, dielectric & coalescing*

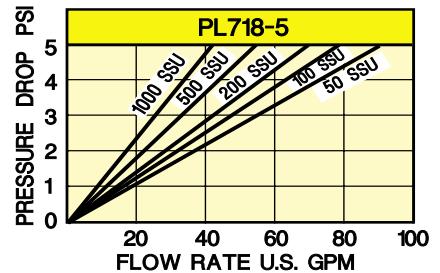
## TYPE 'PL' PLEATED PAPER



Has extremely high flow rate. Performs well on filtration of water and oil. Typical applications: For detergent, straight mineral and residual fuel oils. Water, glycol-water synthetics or oil-water emulsions. PL718 has a metal jacket and center core with vellumoid seals. PL310 has exposed pleats and Buna-N seals. Maximum temperature: 250°F.

MODEL 2-1/8" I.D x 6" x 18" lg.	MICRON
PL718-1	1
PL718-5	5
PL718-10	10
PL718-20	20
PL718-30	30

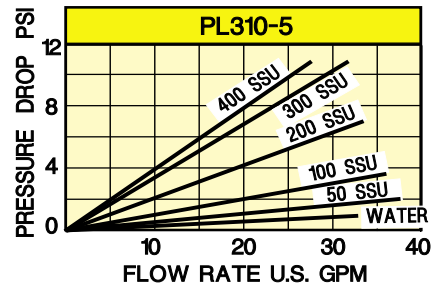
6 & up shipped full carton quantity (6/ctn.)  
Quantity 1-12 F.O.B. Northbrook, Illinois 18 & up F.O.B. East Coast



**SERFILCO  
PLEATED PAPER CARTRIDGES**

1-1/8" I.D x 2-5/8" x 10" lg.	MICRON
PL310-1-11B	1
PL310-5-11B	5
PL310-10-11B	10

30 & up shipped full carton quantity (30/ctn.)  
Quantity 6-29 F.O.B. Northbrook, Illinois 30 & up F.O.B. East Coast



For cartridges of other dimensions or cross reference to other brands, request Bulletin M-205 and Price Sheet M-204.

1-5/8" I.D. x 4" x 36 1/2" lg.	MICRON
PL436-2-4	2

PL436 has exposed pleats, PP core, plastisol end caps.  
F.O.B. Northbrook, Illinois

## TYPE 'C' PURE COTTON

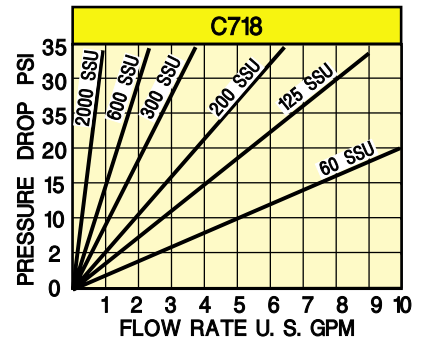


C718

Has a relatively high flow rate and dirt holding capacity. Retains resiliency and will absorb water. Typical applications: Hydraulic, fuel, quench and diesel engine lube oils; machine tool coolants, solvents, etc. Spun wound all new cotton thread.

MODEL (MATERIAL)	MICRON
C718 (Cotton/stl. core)	10

2-1/8" I.D. x 6-3/4" O.D. x 18" lg.  
4 & up shipped full carton quantity (4/ctn.)  
Quantity 1-8 F.O.B. Northbrook, Illinois  
12 & up F.O.B. East Coast



**SERFILCO  
"SPUN-WOUND"  
COTTON THREAD  
CARTRIDGES**



**TYPE 'F' FULLER'S EARTH - Highest quality.**

Neutralizes oils which become acidic from long use. Metal encased and bag type.

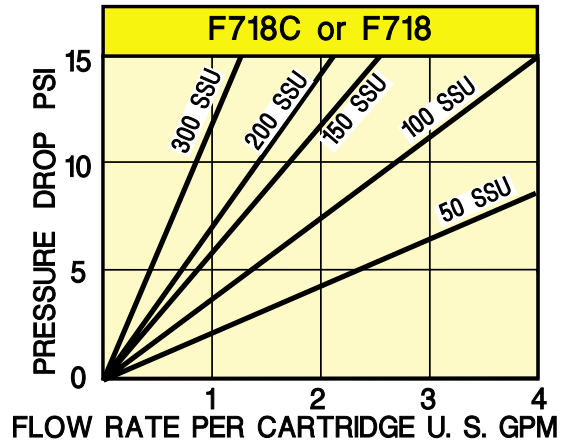
**For: Fuel, hydraulic, insulating and lubricating oils.  
Jet fuels, quench, rolling and synthetic hydraulic oils.**



- **Outer retaining bag**  
Made from medium permeable duck - strong, yet providing good penetration without sliming over.
- **Inner core fabric**  
Stout, heat bonded polyester non-woven material. Good permeability with orifice size designed to minimize migration.
- **Attapulgit LVM clay**  
Especially extruded and calcined to improve porosity and adsorptive characteristics.
- **Packaging**  
Each cartridge is poly bagged to prevent moisture contamination.

**Metal canister F718C** - Individually boxed and palletized.  
**Cotton bags F718 & F718-4** - Packed 4 per heavy double wall carton for maximum shipping protection.

**COTTON BAG**  
**F718** (2-1/8" I.D. x 7" x 19-1/4" lg.)  
 Bag type to replace:  
 CFD 6825, Fram C727, Keene LEB 718, Velcon CO-719B  
**F718-4** (2-1/4" I.D. x 6-3/4" x 18-1/4" lg.)  
 Bag type with permanent center tube to replace:  
 Velcon CO-718B  
**METAL CANISTER**  
**F718-C** (2-1/8" I.D. x 6-3/4" x 18" lg.)  
 Canister type to replace:  
 Banner FCC 18701, CFD 4603, Fram C766-1, Hilco FFC-00, H-A 718-FEP, Keene D196, LE 718, Velcon CO-718-CC



**TO ORDER, specify Model**

MODEL	DESCRIPTION
F718-C	METAL CANISTER
F718	COTTON BAG
F718-4	COTTON BAG

4 & up shipped full carton quantity.  
Quantity 1-3 F.O.B. Northbrook, Illinois  
4 & up F.O.B. East Coast.



# EDM FILTER CARTRIDGES



***Protect your investment - reduce costs with high quality replacement filter cartridges***

- Designed for both wire EDM (D.I. water) and Ram/sinker EDM (oil) machines. Meets or exceeds OEM specifications.
- High efficiency filtration for removal of harmful spark erosion residue resulting in improved fluid flushing, cooling & insulating properties.
- Reduce downtime & extend the life of your deionized water or dielectric oil.
- Eliminate hot spots & arcing caused by contaminated dielectric fluids.
- Water resistant paper is phenolic resin impregnated and oven cured.

SPECIFICATIONS								
PART NUMBER	OUTSIDE DIA.	INSIDE DIA.	OVERALL LENGTH	SEAL	CORE	OUTSIDE BODY	BONDING	COMMENT
PL407-5-2	4"	1-1/16"	7-1/2"	Vellumoid	Steel	Plated	PVC	Agietron
PL614-5	6"	3-1/2"	14-1/2"	Buna N	Steel	Plated	PVC	Japax Facet CH 57 EDM
PL614-5-1	6"	1"	14-5/8"	Grommet	Steel	Plated	PVC	Facet C44 (w/handle)
PL614-5-1A	6"	1"	14-5/8"	Grommet	Plated	Plated	PVC	Facet C44P (w/handle)
PL614-5-2	6"	1-1/4"	14-5/8"	Grommet	Steel	Plated	PVC	Charmilles Agietron Facet C54 (w/handle)
PL614-5-2A	6"	1-1/4"	14-5/8"	Grommet	Steel	None	PVC	Facet C54 & CH54PL (w/handle)
PL614-5-2P	6"	1-1/4"	14-5/8"	Grommet	Plated	Plated	PVC	Sodick Charmilles Facet CH56PL (w/handle)
PL614-5-3	6"	1-1/4"	14"	Cork	Steel	Plated	PVC	Japax
PL614-5-5	6"	3-1/2"	14-1/2"	Buna N	Steel	None	PVC	Japax Facet C744
PL614-5-6	6"	3-1/2"	14-1/2"	Buna N	Plated	None	PVC	Japax
PL614-5-16	6"	1-1/4"	14-5/16"	Cork	Steel	Plated	PVC	Japax
PL614-5-16A	6"	1-1/4"	14-5/16"	Cork	Plated	Plated	PVC	Japax
PL614-5-16C	6"	1-1/4"	14-5/16"	Cork	Steel	None	PVC	Japax
PL614-3-20	6"	1-1/4"	14"	Cork	Plated	None	PVC	Japax (w/handle) 3 micron
PL614-5-20	6"	1-1/4"	14"	Cork	Plated	None	PVC	Edmas WF-8 (w/handle)
PL614-5-20A	6"	1-1/4"	14"	Cork	Plated	None	PVC	Japax (w/handle) Water Resistant Paper
PL614-5-20C	6"	1-1/4"	14"	Cork	Steel	None	PVC	Japax (w/handle)
PL614-5-26	6"	3-1/2"	14-1/2"	Buna N	Plated	None	Epoxy	Deionized Water Only
PL614-5-44A	6"	1-1/4"	14"	Vellumoid	Plastic	None	Epoxy	Epoxy Ends
C718	6-1/2"	2-1/8"	18"	Vellumoid	Steel	Sock	N/A	Depth-Cotton Fiber
F718-C	6-1/2"	2-1/8"	18"	Cork	Fiber	Plated	PVC	Clay (Fuller's Earth) _ Oil Acid REmoval
PL718-5FP	6"	2-5/8"	18"	Vellumoid	Steel	Plated	PVC	Charmilles Sodick Elox Excello Spartcatron
PL718-5-5A	6"	2-1/8"	18"	Vellumoid	Steel	Plated	PVC	Sodic Eltee Pulsitron Spartcatron (w/handle)
PL718-5-14BP	6"	2-5/8"	17-7/8"	Buna N	Plated	Plated	PVC	Deionized Water Only
C815-2	7-1/2"	1-1/2"	15-1/8"	Vellumoid	Steel	Sock	N/A	Depth-Cotton Fiber



**PL614-5**



**PL614-5-5**





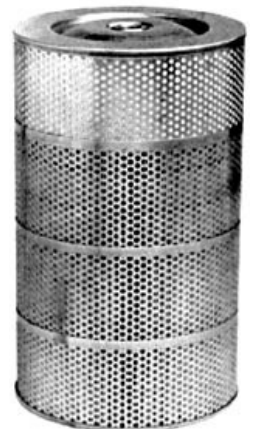
## Protect your investment - reduce costs with high quality replacement filter cartridges

- *Designed for both wire EDM (D.I. water) and Ram/sinker EDM (oil) machines. Meets or exceeds OEM specifications.*
- *High efficiency filtration for removal of harmful spark erosion residue resulting in improved fluid flushing, cooling & insulating properties.*
- *Reduce downtime & extend the life of your deionized water or dielectric oil.*
- *Eliminate hot spots & arcing caused by contaminated dielectric fluids.*
- *Water resistant paper is phenolic resin impregnated and oven cured.*

SPECIFICATIONS								
PART NUMBER	OUTSIDE DIA.	INSIDE DIA.	OVERALL LENGTH	SEAL	CORE	OUTSIDE BODY	BONDING	COMMENT
PL1011-5	10"	1-3/4"	11"	Vellumoid	Plated	None	PVC	Le Blond Makino (w/handle)
PL1011-5-1	10-1/4"	1-3/4"	11"	Vellumoid	Plated	Plated	PVC	Le Blond Makino (w/handle)
PL1012-5	10-1/4"	1-3/4"	11-5/8"	Buna N	Plated	None	PVC	Le Blond Makino (w/handle)
PL1014	10-1/4"	1-1/4"	13-1/2"	Cork	Plated	None	PVC	Elox CNC Mitsubishi Hitachi
PL1014-3	10-1/4"	1-1/4"	13-1/2"	Cork	Plated	None	PVC	Mitsubishi 3 micron
PL1014-5	10-1/4"	1-1/4"	13-1/2"	Cork	Plated	None	PVC	Mitsubishi (w/handle)
PL1014-5-1	10-1/4"	1-1/4"	13-1/2"	Cork	Plated	Plated	PVC	Mitsubishi Diafilpa (w/handle)
PL1016-5	10-1/4"	1-13/16"	16"	Vellumoid	Plated	Plated	Epoxy	Brother-Racon
PL1214	11-13/16"	1-3/4"	13-1/2"	Vellumoid	Plated	Plated	Epoxy	Hitachi
PL1220-3	11-13/16"	1-5/32"	19-5/8"	None	Plated	Plated	Epoxy	Mitsubishi 3 micron
PL1220-5	11-13/16"	1-5/32"	19-5/8"	None	Plated	Plated	Epoxy	Mitsubishi
PL1220-20	11-13/16"	1-1/8"	19-5/8"	None	Plated	Plated	Epoxy	Mitsubishi
PL1220-5-1	11-13/16"	1-1/8"	19-5/8"	None	Steel	Plated	Epoxy	Mitsubishi
PL1220-5-2	11-13/16"	2-1/4"	20"	None	Plated	Plated	Epoxy	Mitsubishi Bi-directional Flow
PL1312	13-1/2"	1-7/8"	12"	Vellumoid	Plated	Plated	Epoxy	Elox-Fanuc
PL1318-3	13-1/2"	1-7/8"	18"	Vellumoid	Plated	Plated	Epoxy	Elox-Fanuc 3 micron
PL1318-5	13-1/2"	1-7/8"	18"	Vellumoid	Plated	Plated	Epoxy	Elox-Fanuc flat cover/bottom
PL1318-10	13-1/2"	1-7/8"	18"	Vellumoid	Plated	Plated	Epoxy	Elox-Fanuc, 10 micron flat cover/bottom
PL1318-5-1F	13-1/2"	1-7/8"	18"	Buna N	Plated	Plated	Epoxy	Fanuc cone cover/flat bottom
PL1318-5-1S	13-1/2"	1-7/8"	18"	Buna N	Plated	Plated	Epoxy	Sodick flat cover/cone bottom



PL1011-5



PL 1220-5