

### WATER / CHEMICALS / PLATING METAL FINISHING SOLUTIONS ELECTRONICS / PC BOARD MANUFACTURING

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.

#### DEPTH WOUND FILTER CARTRIDGES

DIAMOND DEPTH, MAXI-DEPTH, MAXI-WIND, HI-PERF, and PUREFYBE 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.

#### 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 reusable for economical operation and, therefore, minimize disposal costs.

#### 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.



**IMPORTANT:** Verify media for solution compatibility before installation and use.

First letter(s) in cartridge Code No. is depth type filter media identification.

See Model Number identification on Page 3.

Purefybe®, Bleached Cotton and Polyspun® media are free of "sizing" and yarn "finish" substances. We recommend all other media be flushed with warm water prior to use, depending upon application requirements.



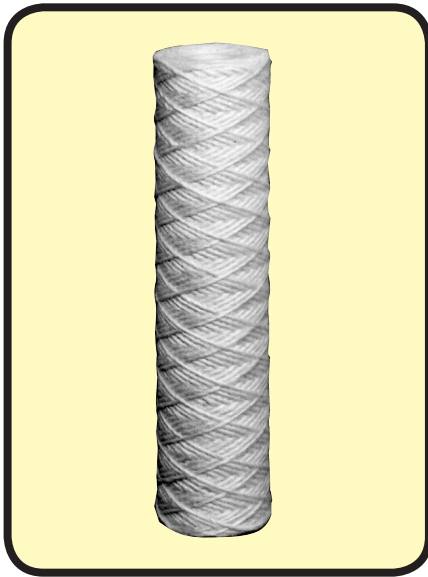
**POLYPROPYLENE W/ POLYPROPYLENE CORE**

**FEATURES**

- 2½" O.D. nominal 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 (see TM-110)
- 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, get quantity discounts, and "just-in-time" scheduled releases, by placing blanket order



MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
01U10U	1	10"	30
01U20U		20"	15
01U30U		30"	15
01U40U		40"	10
03U10U	3	10"	30
03U20U		20"	15
03U30U		30"	15
03U40U		40"	10
05U10U	5	10"	30
05U20U		20"	15
05U30U		30"	15
05U40U		40"	10
10U10U	10	10"	30
10U20U		20"	15
10U30U		30"	15
10U40U		40"	10
15U10U	15	10"	30
15U20U		20"	15
15U30U		30"	15
15U40U		40"	10

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
20U10U	20	10"	30
20U20U		20"	15
20U30U		30"	15
20U40U		40"	10
30U10U		10"	30
30U20U	30	20"	15
30U30U		30"	15
30U40U		40"	10
50U10U		10"	30
50U20U	50	20"	15
50U30U		30"	15
50U40U		40"	10
75U10U		10"	30
75U20U	75	20"	15
75U30U		30"	15
75U40U		40"	10
99U10U		10"	30
99U20U	100	20"	15
99U30U		30"	15
99U40U		40"	10
200U10U		10"	30
200U20U	200	20"	15
200U30U		30"	15
200U40U		40"	10

For ordering information, see page 11



# MAXI-DEPTH | WOUND FILTER CARTRIDGES

2900 MacArthur Blvd. Northbrook, IL. USA 60062 [www.serfilco.com](http://www.serfilco.com) (800) 323 - 5431

## BLEACHED COTTON w/ POLYPROPYLENE CORE

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

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
001C4U	1	4"	60
001C6U		6"	30
01C10U		10"	30
01C20U		20"	15
01C30U		30"	15
003C6U	3	6"	30
03C10U		10"	30
03C20U		20"	15
03C30U		30"	15
03C40U		40"	10
05C10U	5	10"	30
05C20U		20"	15
05C30U		30"	15
010C6U	10	6"	30
10C10U		10"	30
10C20U		20"	15
10C30U		30"	15
015C4U	15	4"	60
015C6U		6"	30
15C10U		10"	30
15C20U		20"	15
15C30U		30"	15
15C40U		40"	10
20C10U	20	10"	30
20C20U		20"	15
20C30U		30"	15
030C6U	30	6"	30
30C10U		10"	30
30C20U		20"	15
30C30U		30"	15
50C10U	50	10"	30
50C20U		20"	15
50C30U		30"	15
50C40U		40"	10
75C10U	75	10"	30
75C20U		20"	15
75C30U		30"	15
99C10U	100	10"	30
99C20U		20"	15
99C30U		30"	15

## BLEACHED COTTON w/TINNED STEEL CORE

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
05C10T	5	10"	30
10C10T	10		
15C10T	15		
30C10T	30		
50C10T	50		
75C10T	75		
99C10T	100		

## UNBLEACHED COTTON w/TINNED STEEL CORE

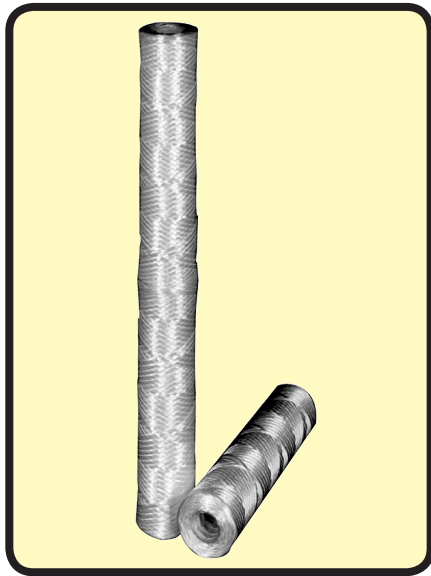
MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
05B10T	5	10"	30
05B20T		20"	15
05B30T		30"	15
15B10T	15	10"	30
15B20T		20"	15
15B30T		30"	15
30B10T	30	10"	30
30B20T		20"	15
30B30T		30"	15
50B10T	50	10"	30
50B20T		20"	15
50B30T		30"	15
99B10T	100	10"	30
99B20T		20"	15
99B30T		30"	15

For ordering information, see page 11

## 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")			ECS - 316 SS
15	H - Hi-Perf	W - Potable water polypropylene <sup>1</sup>	10 (10")	A - 304SS		
20	K - Polyester		19.8 (19-3/4")	T - Tinned Steel		
30	N - Nylon		20 (20")			
50	O - Orlon®		29.8 (29-3/4")			EPS - One piece polypropylene spring & top seal
75			30 (30")			
99 (100)	Orlon is a registered trademark of DuPont.	<sup>1</sup> Meets FDA regulations for potable water (drinking water)	40 (40")			



**FREE OF EXTRACTABLES, LUBRICANTS, BINDERS, ANTI-STATIC AND SIZING AGENTS.**

**APPLICATIONS**

Plating Solutions	Photographics	D.I. & Tap Water
Electronics	PC Board Mfg.	Pharmaceuticals
Coatings	Chemicals	

- **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)  
(see chem. guide TM-110)
- **Length to fit any chamber**  
10", 20", and 30" 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	CARTON QTY
01P10U	1	10"	30
01P20U		20"	15
01P30U		30"	15
03P10U	3	10"	30
03P20U		20"	15
03P30U		30"	15
05P10U	5	10"	30
05P20U		20"	15
05P30U		30"	15
10P10U	10	10"	30
10P20U		20"	15
10P30U		30"	15

For ordering information, see page 11

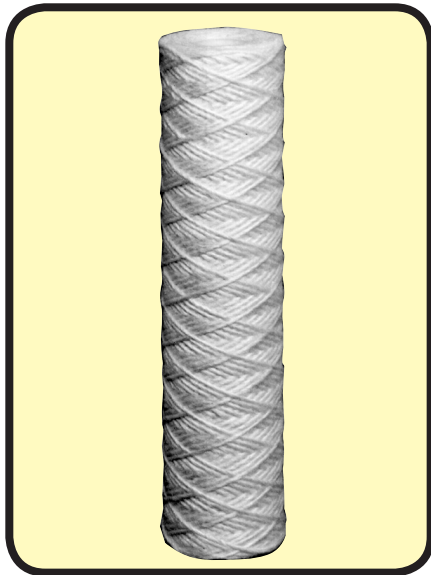
MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
15P10U	15	10"	30
15P20U		20"	15
15P30U		30"	15
20P10U	20	10"	30
20P20U		20"	15
20P30U		30"	15
25P10U	25	10"	30
25P20U		20"	15
25P30U		30"	15
50P10U	50	10"	30
50P20U		20"	15
50P30U		30"	15
99P10U	100	10"	30
99P20U		20"	15
99P30U		30"	15



**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	CARTON QTY
05H10U	5	10	30
05H20U		20	15
05H30U		30	15
05H40U		40	10
15H10U	15	10	30
15H20U		20	15
15H30U		30	15
15H40U		40	10
30H10U	30	10	30
30H20U		20	15
30H30U		30	15
30H40U		40	10
50H10U	50	10	30
50H20U		20	15
50H30U		30	15
50H40U		40	10
99H10U	100	10	30
99H20U		20	15
99H30U		30	15
99H40U		40	10

**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

MODEL	MICRON RETENTION RATING	LENGTH	CARTON QTY
05G10UC	5	10	30
05G20UC		20	15
05G30UC		30	15
20G10UC	20	10	30
20G20UC		20	15
20G30UC		30	15

**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>)



2-1/2" nominal diameter x 10"

MODEL	CARTON QTY
C0.5A10UH	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>). 2-1/2" nominal O.D.

MODEL	LENGTH	CARTON QTY
U0.5A10UC	10	30
U0.5A20UC	20	15
U0.5A30UC	30	15



**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. (.93m<sup>2</sup>) 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

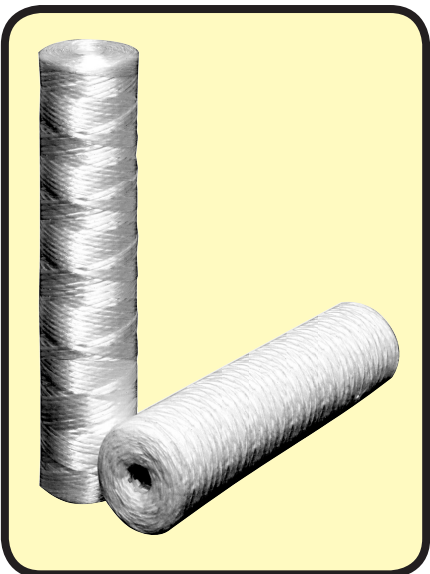
MODEL	MICRON RETENTION RATING	CARTON QTY
0.5U9.8U4	.5	10
1U9.8U4	1	
5U9.8U4	5	
10U9.8U4	10	

\* Minimum order carton of 10.

**PUREFYBE® (Fibrillated polypropylene) w/POLYPROPYLENE CORE**  
Wound of fibers free of "sizing" and yarn "finish" substances

MODEL	MICRON RETENTION RATING	CARTON QTY
5P9.8U4	5	10
10P9.8U4	10	
25P9.8U4	25	
50P9.8U4	50	
99P9.8U	100	

\* Minimum order carton of 10.



**4" DIAMETER X 18" LONG**

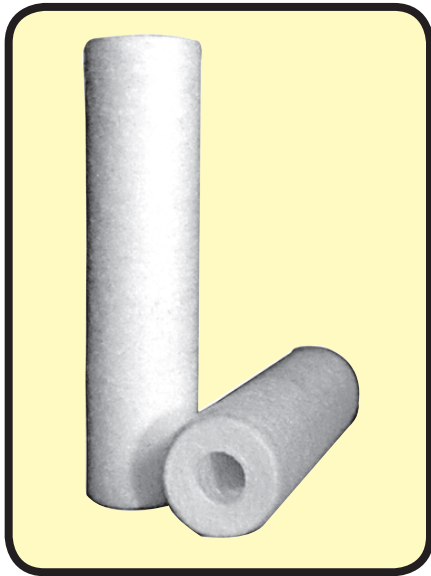
These cartridges provide a dirt holding capacity equivalent to 18 sq. ft. of surface filtration. They are designed for maximum solids loading at a recommended flow rate of 18 GPM (68 LPM). For Models (718), CB Filtration Chambers, and as replacement for original equipment cartridges.

**UNBLEACHED COTTON FOR OILS,  
SOLVENTS & SEMI-AQUEOUS CLEANERS**

MODEL	MICRON RETENTION RATING	CARTON QTY
1B18A4	1	5
3B18A4	3	
5B18A4	5	
10B18A4	10	
20B18A4	20	
30B18A4	30	

**POLYPROPYLENE FOR GOOD CHEMICAL RESISTANCE**

MODEL	MICRON RETENTION RATING	CARTON QTY
1U18A4	1	5
3U18A4	3	
5U18A4	5	
10U18A4	10	
20U18A4	20	
30U18A4	30	



**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

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

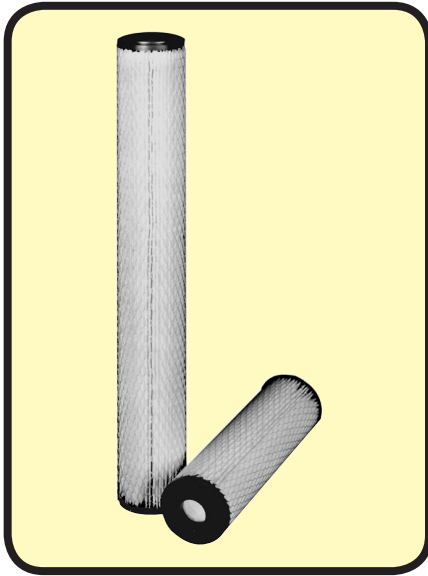
chemical resistance, fiber free melt-bonded media and excellent flow characteristics present a filter cartridge that meets the tough requirements of today's technology.

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
01U9.8	1	9.75	30
01U10		10	30
01U20		20	15
01U30		30	15
05U9.8	5	9.75	30
05U10		10	30
05U20		20	15
05U30		30	15
10U9.8	10	9.75	30
10U10		10	30
10U20		20	15
10U30		30	15

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
20U10	20	10	30
20U20		20	15
20U30		30	15
30U10	30	10	30
30U20		20	15
30U30		30	15
50U10	50	10	30
50U20		20	15
50U30		30	15
75U10	75	10	30
75U20		20	15
75U30		30	15

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.

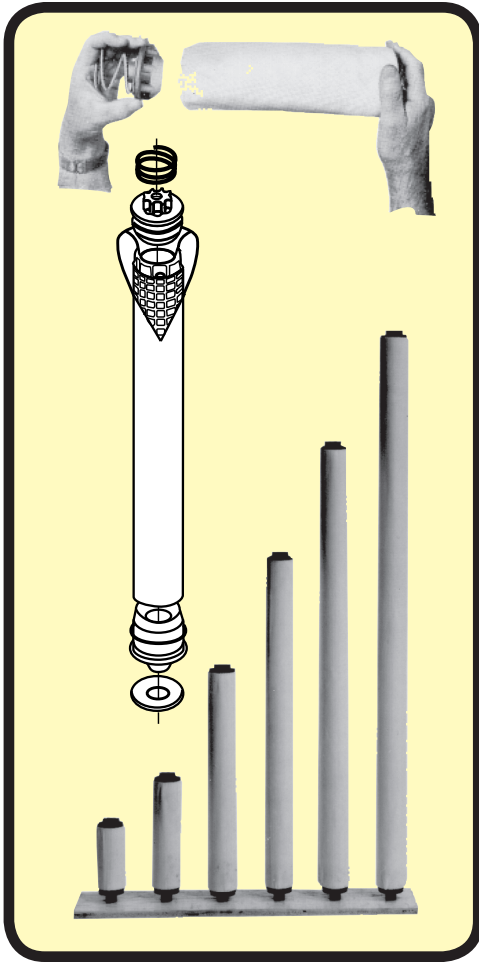
MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
PL-U1U10U	1	10"	40
PL-U1U20U		20"	20
PL-U1U30U		30"	20
PL-U1U40U		40"	20
PL-U5U10U	5	10"	40
PL-U5U20U		20"	20
PL-U5U30U		30"	20
PL-U5U40U		40"	20
PL-U10U10U	10	10"	40
PL-U10U20U		20"	20
PL-U10U30U		30"	20
PL-U10U40U		40"	20

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

**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





**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 poly-propylene 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 NUMBER		
10"	0.6	99-0701	99-0704	88-0161 A
20"	1.2	99-0702	99-0705	88-0162 A
30"	1.8	99-0703	99-0706	88-0163 A
40"	2.4	99-0715	99-0707	88-0164 A
50"	3.0	—	99-0708	88-0165 A

**OPTIONAL**

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

TO ORDER:  
Use Price Code No.

Viton is a registered trademark of DuPont Dow Elastomers.



# CARTRIDGE ORDERING INFORMATION

2900 MacArthur Blvd. Northbrook, IL. USA 60062 [www.serfilco.com](http://www.serfilco.com) (800) 323 - 5431

- Use Model Number to order.
- All cartridges sold in carton quantity only.
- 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.
- Minimum order \$50.00
- F.O.B. shipping point
- Specifications subject to change without notice.

**TABLE A**

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

**SUBSTITUTIONS AND ACCESSORIES, CORE COVER AND EXTENDED CORE**

**TABLE B**

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

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

**TABLE C**

CORE COVER
Add "C" 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 <sup>®</sup> )	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 <sup>®</sup> )	9.8 (9-3/4")	A - 304SS		ECS - 316 SS
15	H - Hi-Perf	W - Potable water polypropylene <sup>1</sup>	10 (10")	T - Tinned Steel		EPS - One piece polypropylene spring & top seal
20	K - Polyester		19.8 (19-3/4")			
30	N - Nylon		20 (20")			
50	O - Orlon <sup>®</sup>		29.8 (29-3/4")			
75			30 (30")			
99 (100)	Orlon is a registered trademark of DuPont.	<sup>1</sup> Meets FDA regulations for potable water (drinking water)	40 (40")			