

FILTER CARTRIDGES



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 quanti- ties. 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

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.

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.

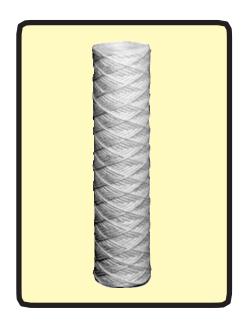
MELT BONDED FILTER CARTRIDGES

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.



MAXI-DEPTH WOUND FILTER CARTRIDGES

POLYPROPYLENE W/ POLYPROPYLENE CORE



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 (see TM-110)
- Fits any D.O.E. style vessel

BENEFITS

- Improve finished goods quality, and minimize maintenance and rework with longer continuous highflow operation
- Save money with lower cost, high surface area
- Reduce inventory, get quantity discounts, and "just-intime" scheduled releases, by placing blanket order

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
01U10U		10"	30
01U20U	1	20"	15
01U30U		30"	15
003U4U		4"	60
003U6U		6"	30
03U10U	3	10"	30
03U20U	3	20"	15
03U30U		30"	15
03U40U		40"	10
005U4U		4"	60
05U10U		10"	30
05U20U	5	20"	15
05U30U		30"	15
05U40U		40"	10
010U4U		4"	60
010U6U		6"	30
10U10U	10	10"	30
10U20U		20"	15
10U30U		30"	15
015U4U		4"	60
015U6U		6"	30
15U10U	15	10"	30
15U20U	15	20"	15
15U30U		30"	15
15U40U		40"	10

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
20U10U		10"	30
20U20U	20	20"	15
20U30U		30"	15
030U4U		4"	60
030U6U		6"	30
30U10U	30	10"	30
30U20U		20"	15
30U30U		30"	15
50U10U		10"	30
50U20U	50	20"	15
50U30U	30	30"	15
50U40U		40"	10
75U10U		10"	30
75U20U	75	20"	15
75U30U		30"	15
99U10U		10"	30
99U20U	100	20"	15
99U30U	100	30"	15
99U40U		40"	10

For ordering information, see page 11

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.

BLEACHED COTTON w/TINNED STEEL CORE

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

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

UNBLEACHED COTTON w/TINNED STEEL CORE

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

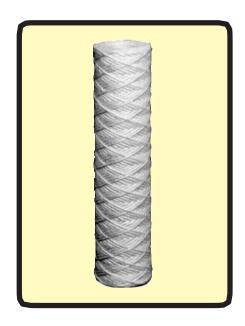
For ordering information, see page 11

MODEL NUMBER IDENTIFICATION

Example of Model Number: 10 U 10 C -ECS

NOMINAL MICRON RATING	MEDIA N	MATERIAL	NOMINAL LENGTH	CORE MATERIAL	CORE COVER	EXTENDED CORE
1 3 5 10 15 20 30 50	B - Unbleached cotton C - Bleached cotton CU - Carbon & Polypropylene G - Glass fiber (Unbaked) H - Hi-Perf K - Polyester N - Nylon O - Orlon®	P - Fibrillated polypropylene (Purefybe®) R - Rayon U - Polypropylene (Wound & Polyspun®) W - Potable water polypropylene¹	4 (3-7/8") 6 (5-7/8") 8 (7-7/8") 9.8 (9-3/4") 10 (10") 19.8 (19-3/4") 20 (20") 29.8 (29-3/4")	U - Polypropylene S - 316SS A - 304SS T - Tinned Steel	None - No symbol C - Cover compatible with media	None - No symbol ECU - Polypropylene ECS - 316 SS EPS - One piece polypropylene
75 99 (100)	Orlon is a registered trademark of DuPont.	¹ Meets FDA regulations for potable water (drinking water)	30 (30") 40 (40")			spring & top seal

VALUWOUND POLYPROPYLENE DEPTH WOUND CARTRIDGES



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

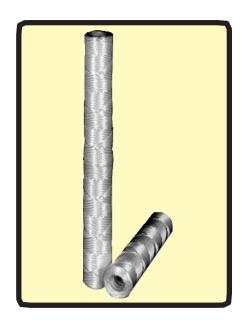
- High quality polypropylene polypropylene core
- Precision wound
- Micron accuracy tested
- Available 1 100 micron rating
- Nominal 2³/₈" O.D.
- Continuous molded cores in 10", 20", 30" or 40" lengths.
- Excellent temperature and chemical compatibility
- Economically priced

MODEL	MICRON	NOMINAL LENGTH	CARTON QTY
1PP10		10	30
1PP20	1	20	15
1PP30	'	30	15
1PP40		40	10
3PP10		10	30
3PP20	3	20	15
3PP30	3	30	15
3PP40		40	10
5PP10		10	30
5PP20	5	20	15
5PP30		30	15
5PP40		40	10
10PP10		10	30
10PP20	10	20	15
10PP30	10	30	15
10PP40		40	10
15PP10		10	30
15PP20	15	20	15
15PP30	13	30	15
15PP40		40	10

MODEL	MICRON	NOMINAL LENGTH	CARTON QTY
20PP10		10	30
20PP20	20	20	15
20PP30	20	30	15
20PP40		40	10
30PP10		10	30
30PP20	30	20	15
30PP30	30	30	15
30PP40		40	10
50PP10		10	30
50PP20	50	20	15
50PP30		30	15
50PP40		40	10
75PP10		10	30
75PP20	75	20	15
75PP30	73	30	15
75PP40		40	10
100PP10		10	30
100PP20	100	20	15
100PP30	100	30	15
100PP40		40	10

For ordering information, see page 11

PUREFYBE® DEPTH WOUND CARTRIDGES



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

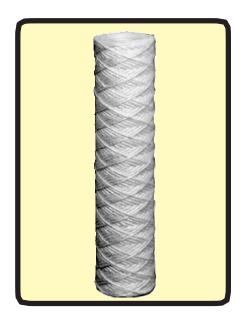
as iron and aluminum hydroxides which can be dissolved with acids. Enter a blanket order with scheduled releases to earn the lowest quantity price, plus gain "Just in time" delivery.

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
01P10U		10"	30
01P20U	1	20"	15
01P30U		30"	15
03P10U		10"	30
03P20U	3	20"	15
03P30U		30"	15
05P10U		10"	30
05P20U	5	20"	15
05P30U		30"	15
10P10U		10"	30
10P20U	10	20"	15
10P30U		30"	15

For ordering information, see page 11

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

DEPTH WOUND CARTRIDGES



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		10	30
05H20U	5	20	15
05H30U	5	30	15
05H40U		40	10
15H10U		10	30
15H20U	15	20	15
15H30U	15	30	15
15H40U		40	10
30H10U		10	30
30H20U	30	20	15
30H30U	30	30	15
30H40U		40	10
50H10U		10	30
50H20U	50	20	15
50H30U	30	30	15
50H40U		40	10
99H10U		10	30
99H20U	100	20	15
99H30U	100	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).





MODEL	MICRON RETENTION RATING	LENGTH	CARTON QTY
05G10UC		10	30
05G20UC	5	20	15
05G30UC		30	15
20G10UC		10	30
20G20UC	20	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 theelectronicsindustryandmanyplatingsolutions. 1 GPM aqueous flow per 10" length @ 5 PSI pressure drop. (3.78 LPM @ .35 kg/cm²)



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/cm²). 2-1/2" nominal O.D.

MODEL	CARTON QTY
C0.5A10UH	30

2-1/2"	nominal	diameter	х	10"

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

MAXI-WIND® 4" DIAMETER FILTER CARTRIDGES



4" DIAMETER X 93/4" 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

MODEL	MICRON RETENTION RATING	CARTON QTY
0.5U9.8U4	.5	
1U9.8U4	1	40
5U9.8U4	5	10
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	
10P9.8U4	10	
25P9.8U4	25	10
50P9.8U4	50	
99P9.8U	100	

^{*} Minimum order carton of 10.

4" DIAMETER X 18" LONG

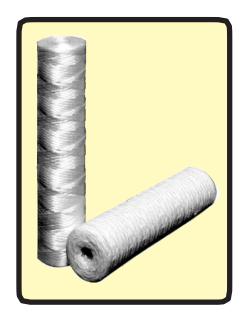
These cartridges provide a dirt holding capacity equivalent to 18 sq. ft. of surface filtration. They are designed for maximum solids loading at a recommended flow rate of 18 GPM (68 LPM). For Models (718), CB Filtration Chambers, and as replacement for original equipment cartridges.

UNBLEACHED COTTON FOR OILS, SOLVENTS & SEMI-AQUEOUS CLEANERS

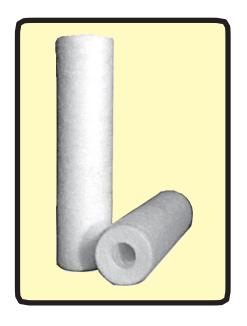
MODEL	MICRON RETENTION RATING	CARTON QTY
1B18A4	1	
3B18A4	3	
5B18A4	5	5
10B18A4	10	5
20B18A4	20	
30B18A4	30	

POLYPROPYLENE FOR GOOD CHEMICAL RESISTANCE

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



POLYSPUN® DEPTH FILTER 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

SERFILCOPOLYSPUNdepthfiltercartridgesareindividually 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.

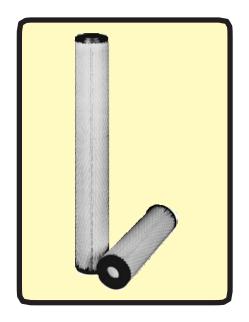
MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
01U9.8		9.75	30
01U10	4	10	30
01U20	'	20	15
01U30		30	15
05U9.8		9.75	30
05U10	5	10	30
05U20	5	20	15
05U30		30	15
10U9.8		9.75	30
10U10	10	10	30
10U20	10	20	15
10U30		30	15

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

MICRON	1	5	10	20	30 - 75
PRESSURE	E	0	4	7	F
DROP (PSI) **	Э	2	ı	.7	.5

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

POLY-SERF © PLEATED FILTER CARTRIDGES



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.

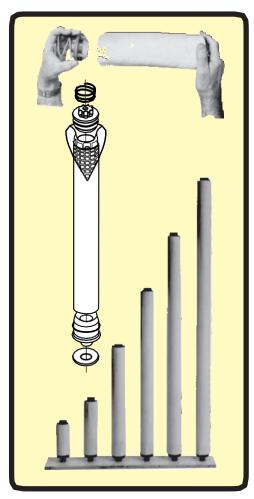
MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
PL-U1U10U		10"	40
PL-U1U20U	4	20"	20
PL-U1U30U	ļ	30"	20
PL-U1U40U		40"	20
PL-U5U10U		10"	40
PL-U5U20U	5	20"	20
PL-U5U30U	5	30"	20
PL-U5U40U		40"	20
PL-U10U10U		10"	40
PL-U10U20U	40	20"	20
PL-U10U30U	10	30"	20
PL-U10U40U		40"	20

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

RE-USABLE SLEEVE-TYPE FILTER CARTRIDGES



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	SURFACE	FOR CHAMBER STYLE		REPLACEMENT	
X AREA 2-1/2" DIA SQ. FT.		SINGLE COLUMN	MULTIPLE COLUMN	SLEEVE ONLY	
2-1/2" DIA.	3Q.11.				
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

CARTRIDGE ORDERING INFORMATION

- Use Model Number to order.
- All catridges sold in carton quantity only.
- For larger quantities, consult ÅBS
- Enter a blanket order with scheduled releases to earn the lowest quantity price, plus gain "Just in Time" delivery.
- 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

SUBSTITUTE CORE MATERIAL for Maxi-Depth and Purefybe wound filter cartridges.					
POLYPROPYL	LENE -U TO:				
S - 316SS					
A - 304SS	Replace the last letter "U" in the				
T - Tinned steel	Model Number with A, S or T.				
TINNED STEE	TINNED STEEL -U TO:				
S - 316SS					
A - 304SS	Replace the last letter "T" in the				
U - Polypro.	Model Number with A, S or U.				

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

00	DE	CO	VER
CU	KE.	CO	V ER

Add "C" after core material letter in Model Number

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

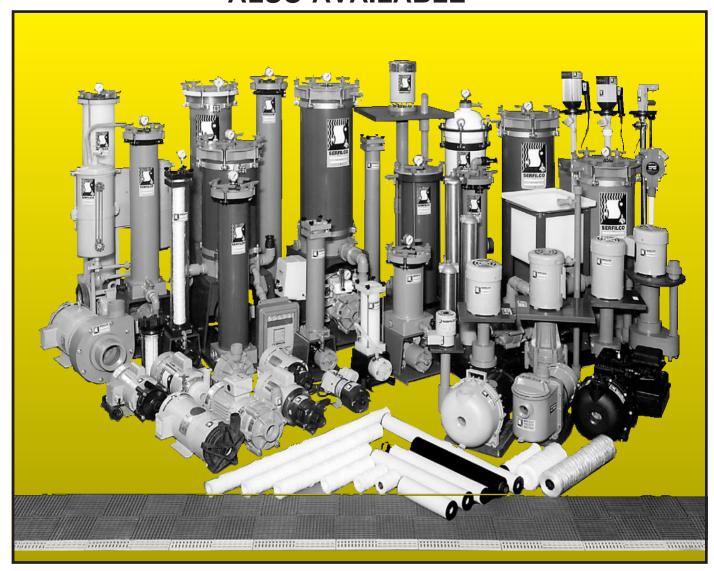
Consult Sales Dept. for other filter media, core materials, diameters, lengths and micron ratings. See Table E below.

TABLE E - MODEL NUMBER IDENTIFICATION

Example of Model Number: 10 U 10 C -ECS

NOMINAL MICRON RATING	MEDIA N	MATERIAL	NOMINAL LENGTH	CORE MATERIAL	CORE COVER	EXTENDED CORE
1 3 5 10 15 20 30 50	B - Unbleached cotton C - Bleached cotton CU - Carbon & Polypropylene G - Glass fiber (Unbaked) H - Hi-Perf K - Polyester N - Nylon	P - Fibrillated polypropylene (Purefybe®) R - Rayon U - Polypropylene (Wound & Polyspun®) W - Potable water polypropylene¹	4 (3-7/8") 6 (5-7/8") 8 (7-7/8") 9.8 (9-3/4") 10 (10") 19.8 (19-3/4") 20 (20") 29.8 (29-3/4")	U - Polypropylene S - 316SS A - 304SS T - Tinned Steel	None - No symbol C - Cover compatible with media	None - No symbol ECU - Polypropylene ECS - 316 SS EPS - One piece
75 99 (100)	O - Orlon [®] Orlon is a registered trademark of DuPont.	¹ Meets FDA regulations for potable water (drinking water)	30 (30") 40 (40")			polypropylene spring & top seal

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