

# The Highest Quality Pleated Cartridges



## All Materials are FDA and California Proposition 65 Compliant

United Filters pleated cartridge filters are an alternative to string wound or spun molded filters. These filters are economical, multi-use, premium quality products that are available in various micron ratings ranging from 50 micron nominal down to .10 micron absolute. End cap configurations include DOE (double open end, flat gasket) and SOE (single open end, external double 222 O-ring/button end cap). Filter medias available include self-bonded fine diameter polypropylene fibers as well as membranes constructed of polypropylene, nylon, or PTEF.

The pleated cartridge filters contain no surfactants or binders that can break down, leach out, or permit the typical problems of channeling and media migration. Maximum effective open surface areas allow for high flow rates at reduced pressure losses as well as high dirt holding capacity, long service life, large throughputs, and lower operating costs. These pleated cartridge filters may be used as either pre-filters or as final filters for bulk and point-of-use filtration. They are most appropriate for use when high efficiency filtration and economy are crucial.

### Recommended Applications:

- Water Purification
- Etchants
- Colloid Removal
- Solvents
- Pharmaceuticals
- Food and Beverages
- Photographic and Plating Solutions
- Printed Circuit Boards
- Chemicals: Ethers, Ketones, Acids  
Esters, Alcohols, Bases, and Solvents
- Magnetic Coatings
- Metal Finishing
- Biologicals
- Microorganisms/Bacteria Retention

### Features:

- Superior Flow Characteristics
- High Dirt Holding Capacity
- Many Lengths and Cartridge Styles
- Low Clean Differential Pressure Drops
- FDA and California Prop 65 Compliant
- Nominal and Absolute Particle Retention Ratings

Warning: • Filter is ideal for filtering out taste, color, and odor particles. But may not be suitable where water is microbiologically unsafe or with unknown quality without adequate disinfection before or after the system.

Note: • It is recommended that you run the tap for 20 seconds prior to using the water for drinking or cooking purposes.

California, p 818.504.9471 f 818.252.7476 Texas, p 806.373.8386 f 806.371.7786

info@unitedfilters.com

orders@unitedfilters.com

# Pleated Polyester

## Style UPE



The chemical and bacteria resistance of the Series UPE polyester media makes these cartridges suitable for potable water, most light industrial applications, swimming pool and spa, and well water applications. The durable, non-woven polyester fabric is reusable, while being pleated to maximize its dirt holding capacity and extending the time period between changes.



### Specifications

Type: Pleated Non-Woven Polyester  
Construction: Non-Woven Polyester Fabric Media  
Vinyl Plastisol End Caps  
Polypropylene Core

Operating Temperature Range: 40°F (4.4°C) to 125°F (52°C)  
Micron Rating: Nominal 1, 5, 10, 20, 30, 50

#### Dimensions:

2 5/8" diam. X 9 3/4", 10" long  
2 5/8" diam. X 19 1/2", 20" long  
2 5/8" diam. X 30" long  
2 5/8" diam. X 40" long  
4 1/2" diam. X 9 3/4" long  
4 1/2" diam. X 20" long

#### Max. Recommended Flow Rates:

5-7 GPM  
10-14 GPM  
15-21 GPM  
20-28 GPM  
10-15 GPM  
20-30 GPM

### Nomenclature

UPE	1	X	10	BB
Filter Media	Micron Rating		Length	Tube O.D.
UPE- Polyester	1		9 3/4"	All filters are standard
	5		10"	2 5/8" O.D. unless
	10		19 1/2"	otherwise specified
	20		20"	BB - 4 1/2"
	30		30"	
	50		40"	

Custom sizes and end cap configuration available. Consult factory.

- Warning: • Filter is ideal for filtering out taste, color, and odor particles. But may not be suitable where water is microbiologically unsafe or with unknown quality without adequate disinfection before or after the system.
- Note: • PE product line is manufactured using FDA approved materials.  
• It is recommended that you run the tap for 20 seconds prior to using the water for drinking or cooking purposes.

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Series UCE cellulose cartridges are designed for general water filtration purposes. They are economical, yet highly effective, at reducing sediment particulates down to nominal 1 micron in size.

The pleated corrugated media provides increased surface area and strength, which results in extended life. End caps are fused to the cellulose media preventing bypass and forming a gasket sealing area.

### Specifications

Type:	Pleated Cellulose
Construction:	Resin Impregnated Cellulose Media Vinyl Plastisol End Caps Polypropylene Core
Operating Temperature Range:	40°F (4.4°C) to 145°F (63°C)
Micron Rating:	Nominal 1, 5, 10, 20

#### Dimensions:

2 5/8" dia. X 9 3/4", 10" long  
 2 5/8" dia. X 19 1/2", 20" long  
 2 5/8" dia. X 30" long  
 2 5/8" dia. X 40" long  
 4 1/2" dia. X 9 3/4" long  
 4 1/2" dia. X 20" long

#### Max. Recommended Flow Rates:

5-7 GPM  
 10-14 GPM  
 15-21 GPM  
 20-28 GPM  
 10-15 GPM  
 20-30 GPM

### Nomenclature

UC	1	X	10	BB
Filter Media C-Cellulose	Micron Rating 1 5 20		Length 9 3/4" 10" 19 1/2" 20" 30" 40"	Tube O.D. All filters are standard 2 5/8" O.D. unless otherwise specified BB - 4 1/2"

Custom sizes and end cap configuration available. Consult factory.

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# Pleated Polypropylene

## Style UPP



### Features

- LOWER clean initial pressure drops
- MORE uniform filtration and overall enhanced cartridge performance
- HIGH particulate reduction efficiencies up to 95%
- OPERATE at HIGHER velocities and flow rates
- GREATER degree of depth filtration
- ADDED loading capabilities

Series U7PP polypropylene cartridges are designed for residential, commercial, and industrial filtration applications. Constructed of durable, chemical resistant polypropylene media, they can be employed on many acids, alkalies, plating solutions, water remediation, and saline solutions. The cartridge filters employ a five (5) layered, high porosity "Bi-Component" polypropylene media consisting of both spun bonded and melt blown polypropylene layers laminated together by ultrasonic sealing in order to provide depth filtration to the media. This depth filtration will allow the cartridge to collect more dirt particulate and in most instances offer a longer life. The soft spun bonded polypropylene having distinct dot patterns is employed on the outer three (3) layers to serve as a prefilter to reduce larger particles while the smooth textured melt blown polypropylene, which has been calendered in order to reduce the media pore size, is incorporated on the inner two (2) layers for microfiltration. This arrangement of both the "pre" and "post" filter components provides two separate gradient layers in one filter. "Gradient Density" filters reduce larger particles, which would blind-off ordinary surface filters on their outer layers, while reducing the final particles on their inner layers. This design is an advancement in filtration technology and maximizes utilization of the filtration media while enhancing overall cartridge performance. Cartridge ends have been immersed in vinyl plastisol, creating a unitized end cap and gasket which virtually eliminates by-pass.

### Specifications

Type: Pleated Bi-Component Polypropylene  
 Construction: Bi-Component Polypropylene Media  
 Vinyl Plastisol End Caps  
 Polypropylene Core  
 Polypropylene Outer Netting  
 Operating Temperature Range: 40°F (4.4°C) to 145°F (63°C)  
 Micron Rating: Nominal 1, 5, 10, 20, 30, 50

Dimensions:	Recommended Flow Rates:
2-5/8" diam. X 9 3/4", 10" long	4-7 GPM
2-5/8" diam. X 19 1/2", 20" long	8-14 GPM
2-5/8" diam. X 30" long	12-21 GPM
2-5/8" diam. X 40" long	16-28 GPM

### Nomenclature

UPP	1	X	10	Tube O.D.
Filter Media	Micron Rating		Length	All filters are standard 2 5/8" O.D. unless otherwise specified
UPP- Polypropylene	1		9 3/4"	
	5		10"	
	10		19 1/2"	
	20		20"	
	30		30"	
	50		40"	

Custom sizes available, consult factory.

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