

ABTEC WOUND FILTER CARTRIDGE FILTERS

WHY ABTEC WOUND CARTRIDGE FILTERS?

1. Greater solids holding capacity

Abtec's wound cartridge filters are manufactured using a high speed, continuous wind process which creates a superior one piece filter with hundreds of diamond shaped tunnels that get progressively smaller from the outer diameter to the core. Finer particles are progressively trapped as fluid travels to the center of the filter allowing for much greater retention capacity than that which is associated with straight surface filter media of the same dimensions and porosity. The winding pattern provides 3.5 square feet per 10" cartridge filter. For each 10" filter length there will be approximately 1/2 to 1 lb. retention of solids before replacement becomes necessary. The amount of solids retained depends on the type of solids in the solutions well as the head pressure developed by the pump.

2. Wide Choice of Porosities, Lengths and Diameters

Our wound cartridge filters reject particles from as low as 0.5 micron to 150 micron plus they are available in lengths ranging from 3 - 40" or longer on special order. We offer a standard nominal 1" inside diameter and optional inside diameters of 7/8", 1 3/8" and 30 mm. Our outside diameter is 2 1/2" standard with optional outside diameters ranging from 2" to 4 1/2". Thus you can tailor your filtering system to your specific needs and economics whether it be for single pass or recirculation filtration.

3. Temperature and Chemical Compatibility

Abtec offers a wide selection of wind and core materials so you can select the appropriate combination for your filtration needs. Wind materials include: standard, fibrillated and utility grade polypropylene, natural cotton, bleached cotton, rayon, polyester, nylon, modacrylic and heated cleaned glass fiber. And core materials include: Polypropylene, tin plated steel, 304 stainless steel and 316 stainless steel.

4. Longer Service Life

Abtec's wound cartridge filters offer true depth filtration for high dirt holding capacity and extremely low media migration. Thus, even when the particle distribution of the contaminant is broad, Abtec filters have excellent dirt holding capacity because of density and structure. Therefore, it is not unusual for a set of cartridges to filter many millions of gallons of fluid before requiring replacement. This means less equipment downtime, extended life for chemical solutions, cleaners, oils, coolants and liquids, not to mention the savings in labor and materials.



Features:

True Depth Filtration

Longer service life

Various Core and Wind
Material Combinations

High Solids Holding Capacity

Chemical and Temperature
Compatibility

Ease of Service & Replacement

Wide Choice of Porosities
Lengths & Diameters

Standard & Custom Sizes

Continuous Wind Process

Fast Shipment

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Wound Filter Cartridges

Nomenclature

C	U	10	R	97	T
Abtec Wound Cartridge	Filter Media	Micron Rating	Tube O.D.	Length	Core type
	C = bleached cotton	0.5	R = 2 1/2"	4	T = tinned steel
	U = Natural cotton	1	Q = 2 3/4	5	P = Polypropylene
	P = polypropylene	5	T = 2"	6	S = 304 Stainless
	-FDA = FDA grade	10	M = 4 1/2"	7	A = 316 Stainless
	poly material.	20		8	
	R = rayon	30		97 = 9 7/8"	
	A = acetate	50		10	
	G = glass	75		19 1/2	
	M = modacrylic	100		20	
	N = Nylon	200		30	
		350		40	

Core Selection Guide

Media

Description

Polypropylene

Economical core of choice for many applications in water and corrosives to 200 deg. F. FDA material

Tin plated steel

General purpose metal core for oils, solvents, paints boiler loops and non FDA applicatons to 400 deg. F.

304 Stainless steel

For high temperature applicaton on diluted acids and moderately corrosive fluids. FDA applications for use to 750 deg. F.

316 Stainless steel

For high temperature applications on strong acids and highly corrosive liquids. FDA applications. For use to 750 deg. F.

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Standard Polypropylene

Recommended for concentrated acids and alkalies, strong oxidizing agents, corrosive fluids & gases. FDA and Non-FDA available contact ABTEC. Easily incinerated to trace ash. Excellent micro-organism resistance. For use to 200 deg. F

Fibrillated Polypropylene - "Electronic Grade"

Non-migrating slit film polypropylene recommended for use in ultra pure liquids, electronics, and plating where non leaching is critical. No extractable or sizing agents present. Chemical resistance equal to standard polypropylene. Low moisture absorption and outstanding abrasion resistance. Lowest static propensity of any man-made fibre.

Utility Grade Polypropylene

Same applications as standard polypropylene but less consistency in appearance due to discoloration nicknamed "rainbow". For use to 200 deg. F. Primarily used in waste water treatment applications.

Modacrylic

For strong acids, concentrated alkalies, oxidizing agents. For use to 200 deg. F. Not recommended for organic solvents.

Polyester

Chemical resistance similar to Polypropylene, with higher temperature resistance. For use to 350 deg. F.

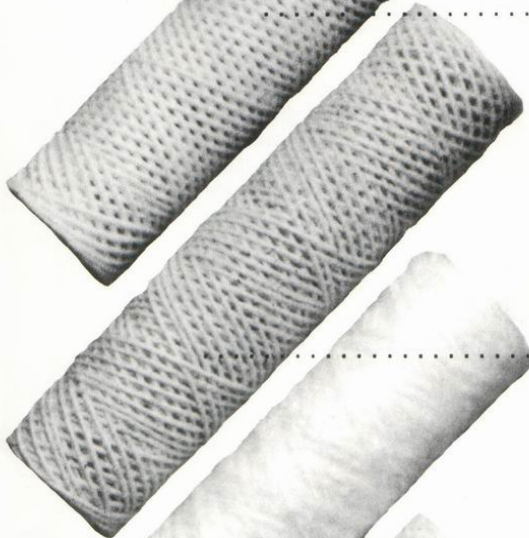
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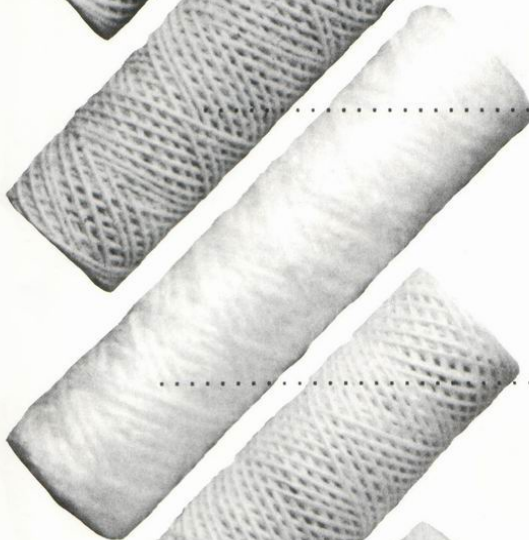
Bleached cotton

Bleached to meet FDA Standards for distilled water, beverages, vegetable oils, petroleum, fatty acid and alcohols. For use to 300 deg. F.



Natural Cotton (Unbleached)

For oils, water, paints, organic solvents, alcohols, petroleum. Non - FDA, for use to 300 deg. F.



Heat Cleaned Glass Fibre

Trace of oil sizing removed by heat cleaning, to yield virgin glass fibre. Recommended for high temp. and high corrosion applications. For use to 750 deg. F.



Rayon

Fluid compatibility similar to bleached cotton, but has more coarse fibre and is less absorbent than cotton. Swells in aqueous solutions. For use to 300 deg. F.



Nylon

For special process applications, concentrated alkalies, and hydrocarbons. Excellent micro-organism resistance. For use to 300 deg. F.