



String Wound Cartridges

String Wound Cartridges 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 which allows for a much greater retention capacity than flat surface filter media of the same dimensions and porosity.

The 10" and 20" string wound filters have a unique dual density that is superior to most string wound filters. The filters are wound at high tension for the first half of the winding process and then at a lower tension during the second half of the wind. This produces a superior and efficient filter that does not blind as quickly, thereby giving longer filter life with better filtration without compromising efficiency.

The winding pattern provides 3.5 square feet per each 10 inches of cartridge length. For each 10 inch filter length there will be approximately 1/2 to 1 pound retention of solids before replacement becomes necessary. The amount of solids retained depends on the type of solids in the solution as well as the head pressure developed by the pump.

String wound filters can be custom made from 4" to 72" in length and from 2" to 5" in diameter. We can satisfy your filtration needs by producing filters with filtration capabilities from 0.5 microns up to 400 microns.



Materials of Construction:

Media: Cotton, Polypropylene, Rayon, Polyester, Nylon, Fiberglass, and Ryton

Core Material: Polypropylene, Tin Plated Steel, 304 Stainless Steel, 316 Stainless Steel

Core Cover: Polypropylene, Nylon, Fiberglass

Gaskets/ O-rings: EPDM, Buna N, Silicon, Viton, TEV

Dimensions (nominal):

Lengths: 5" to 40" (up to 72" custom)

Diameters: 2 1/4", 2 3/8", 2 7/16", 4 1/2"
(and custom from 2" to 5")

Features	Benefits
<ul style="list-style-type: none"> ■ Dual Density string wound 	<ul style="list-style-type: none"> ■ Two zones to provide increased depth filtration that does not blind as quickly as standard filters ■ Wound in a precise pattern around the core providing greater surface area. The result is higher dirt-loading capacity and greater efficiency than standard wound cartridges
<ul style="list-style-type: none"> ■ Wide variety of materials to choose from 	<ul style="list-style-type: none"> ■ 11 different classifications of material to meet your specific filtration needs
<ul style="list-style-type: none"> ■ Quality Manufacturing 	<ul style="list-style-type: none"> ■ Most technically advanced string wound filter on the market ■ Continuous wound with no seams or binders

String Wound Cartridges

Media	Max Temp	Applications
Bleached Cotton (C) FDA	300° F 150° C	For potable liquids, vegetable oils, beverages, organic solvents, water, dilute acids, petroleum oils, and other services.
Industrial White Cotton (W)	300° F 150° C	Same (non - FDA) applications as bleached cotton.
Natural Cotton (U)	300° F 150° C	Same (non - FDA) applications as bleached cotton.
Polypropylene (P)	180° F 82° C	Filtration of organic acids, alkalies, solvents and many other chemicals. Very effective in low viscosity solutions.
FDA Polypropylene (A)	180° F 82° C	Same chemical compatibility as polypropylene, fiber complies with FDA regulation that permits contact with food and edible products.
Fibrillated Polypropylene (F)	180° F 82° C	Same chemical compatibility as polypropylene. Has no finish on material, therefore, will not cause foaming.
Rayon (R)	300° F 150° C	Chemical compatibility similar to cotton. Used primarily in filtration of petroleum oils.
Polyester (Y)	250° F 121° C	Chemical compatibility similar to cotton and polypropylene. Has a higher temperature resistance than polypropylene in most cases.
Nylon (N)	350° F 177° C	Used for special process applications, concentrated alkalies and hydrocarbons.
Fiberglass (G)	750° F 399° C	Filtration of organic acids, organic solvents, petroleum 399° C oils, mineral acids, and other corrosive or high-temperature services

String Wound Cartridge Ordering Guide

String Wound Cartridges	MEDIA	MICRON RATING	NOMINAL DIAMETER (INCHES)	NOMINAL LENGTH (INCHES)	CORE MATERIAL:	CORE COVER	END TREATMENT, CORE EXTENSIONS	Gasket/ O-Ring materials
	C = FDA Bleached Cotton	05 = 0.5um	B = 2 1/4"	5 = 5"	P = Polypropylene	Blank = None	Blank = None	Blank = None
	W = Industrial White Cotton	1 = 1.0um	E = 2 3/8"	9.5 = 9 1/2"	T = Tin Plated Steel	N = Nylon	0 = 222 O-Ring Flat, PP	E = EPDM
SW	U = Natural Cotton	3 = 3.0um	R = 2 7/16"	9.75 = 9 3/4"	S = 304 Stainless Steel	P = Polypropylene	5 = 222 O-Ring Spear, PP	N = Buna N
	P = Polypropylene	5 = 5.0um	(standard)	10 = 10" (standard)	A = 316 Stainless Steel	G = Fiberglass	6 = 226 O-Ring Flat, PP	S = Silicon
	A = FDA Polypropylene	10 = 10um	P = 4 1/2"	19.5 = 19 1/2"		C = Cotton	7 = 226 O-Ring Spear, PP	V = Viton
	F = Fibrillated Polypropylene	15 = 15um		20 = 20"			6 = 226 O-Ring Flat, PP	T = TEV
	R = Rayon	20 = 20um		30 = 30"			F = DOE Flat Gasket, PP	
	Y = Polyester	25 = 25um		40 = 40"			S = SOE Flat Gasket/Flat, PP	Options
	N = Nylon	30 = 30um					PE = Poly Core Insert	-IW = Individually
	G = Fiberglass	40 = 40um					AE = 316 SS Core Insert	Wrapped
		50 = 50um					EC = Extended Crimped Core	
		75 = 75um					CC = Core Connector	
		100 = 100um					PS = Poly Spring	
		125 = 125um					PM = Metal Spring (poly cap)	
		150 = 150um					ACS = Std. 316SS Cap and Spring	
		250 = 250um						
		350 = 350um						

Specials available upon request

Example – String Wound FDA bleached cotton, 3um, 2 7/16" Diameter, 10", Polypropylene core - SWC3R10P

Your Local Distributor:

ZenPure

North & South Americas:
ZenPure Americas, Inc
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703-335-9910

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