

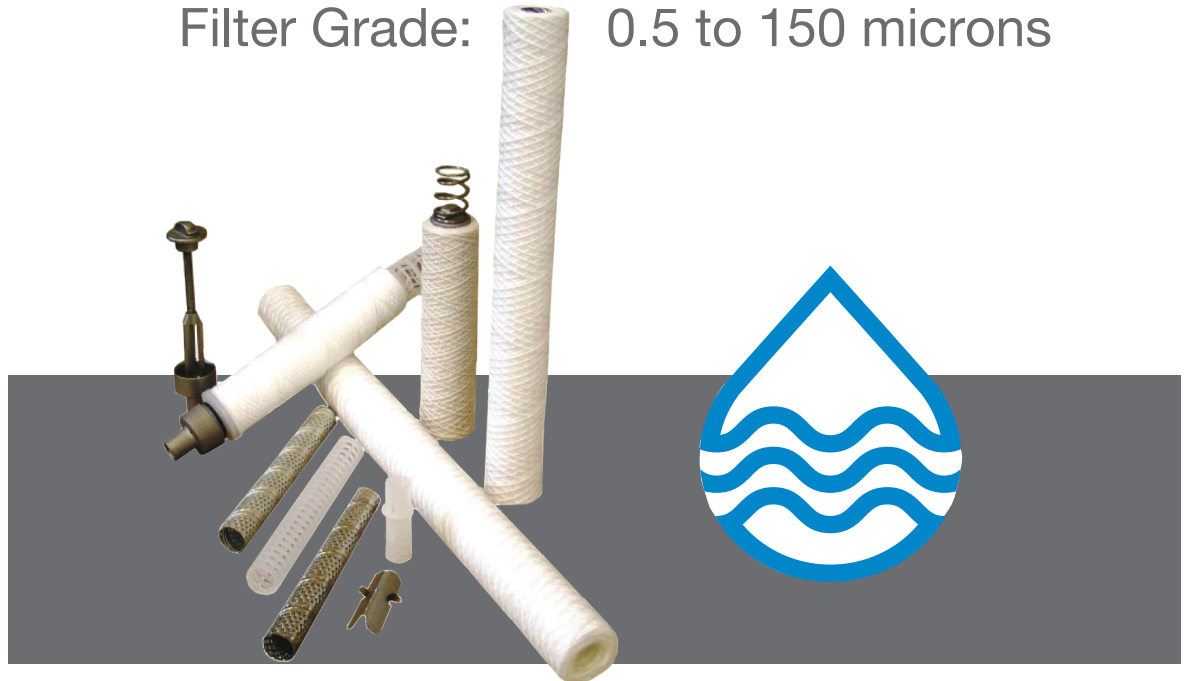
SAMPSON

STRING WOUND CARTRIDGE FILTERS



Sampson™ String Wound Cartridge Filters

Filter Grade: 0.5 to 150 microns



Applications

- Chemicals: polishing of chemical solutions, solvents, acids, bulk industrial chemicals, monomers, process & cooling water.
- Air & Gas: instrument air, compressed air, most gases including hydrogen, nitrogen, freon, helium & most other corrosive gases.
- Photographic: chemicals, emulsions, wash & rinse water.
- Pre-filtration
- Water & Wastewater, Process Water
- Food & Beverage
- Other: mining, deep well disposal, plating solutions, cleaning fluids, lubricating oils, plating solutions, cleaning solutions, adhesives, paint, ink & coatings.

Feature

- Precision winding patterns ensure filtration ratings that are accurate & result in high retention efficiency.
- In-house state-of-the-art production machinery ensures repeatable & consistent high quality products.
- Various fiber & core materials are available to suit a broad range of applications.
- Suitable for both liquid & gas filtration.
- Cost effective & proven versus melt blown, spunbond & resin bonded cartridges.
- Available in standard 2-1/2" diameter & others.
- Many different cartridge sealing options & end configurations are available.

Specifications

FILTER GRADES: 0.5 to 150 microns including 0.5, 1, 3, 5, 10, 15, 20, 25, 30, 40, 50, 75, 100, 150 µm

LENGTHS: 9.75" to 40" including 9-3/4" (248 mm), 10" (254 mm), 19-1/2" (495 mm), 20" (508 mm), 29-1/4" (743 mm), 29-1/2" (749 mm), 30" (762 mm), 40" (1016 mm)

OUTSIDE DIAMETER: Standard: 2-1/2" (64 mm) OD Nominal, Optional: 1-3/4" (44 mm), 2" (51 mm), 2-3/8" (60 mm), 2-1/2" (64 mm), 2-5/8" (67 mm), 2-3/4" (70 mm), 3" (76 mm), 3-1/2" (89 mm), 4" (102 mm), 4-1/4" (108 mm) OD Nominal

INSIDE DIAMETER: Standard: 1" (25 mm) ID Nominal
Optional: 1.56" (40 mm) ID Nominal - Wildcat

RECOMMENDED CHANGE-OUT DIFFERENTIAL PRESSURE: 30 PSID (2.1 BAR)

MAXIMUM TEMPERATURE RATING: See Material Selection Guide (Page 2)

FILTER MEDIA: Bleached Cotton, FDA Bleached Cotton*, Natural Cotton, Rayon, Fiber-glass, Polypropylene, FDA Polypropylene*, Polyester.

* FDA Bleached Cotton and FDA Polypropylene filters are manufactured of materials that comply with FDA requirements for food contact per CFR Title 21.

CENTER CORE: Tin Plated Steel, Polypropylene, 304 Stainless Steel, 316 Stainless Steel.

CORE COVER (Optional): Covers made from materials such as polypropylene, nylon and polyester can be installed to control the migration of fibers.

END MODIFIERS (Optional): Various end modifiers are available to suit individual installation applications.

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FILTER MEDIUM	COTTON	POLYPROPOLYNE	RAYON	FIBER GLASS	POLYSTER
MAX. TEMPERATURE					
With metal core	300°F (149°C)	200°F (39°C)	300°F (149°C)	750°F (399°C)	250°F (121°C)
With Polypropylene core	140°F (60°C)	140°F (60°C)	140°F (60°C)	140°F (60°C)	140°F (60°C)
COMPATIBLE WITH					
POTABLE LIQUIDS, WATER	Excellent	Excellent	Good	Poor	Good
ORGANIC SOLVENT	Excellent	Good	Excellent	Excellent	Excellent
OILS	Excellent	Fair	Excellent	Excellent	Good
ORGANIC ACIDS	Good	Excellent	Good	Excellent	Good
ALKALIES	Good	Excellent	Good	Poor	N/R
OXIDIZING AGENTS	Fair	Poor	Fair	Excellent	Good
STEAM, NON-CONTINUOUS	N/R	Fair	N/R	N/R	Fair
STRONG INORGANIC ACIDS	N/R	Excellent	Poor	Excellent	Fair
DILUTE INORGANIC ACIDS	Fair	Excellent	Fair	Excellent	Good
MICROORGANISM RESISTANCE	Poor	Excellent	Poor	Excellent	Excellent

ORDERING GUIDE

C	20	A	30	P	-	-
MEDIA	MICRON RATING	OD DIAMETER (INCH)	LENGTH	CORE MATERIAL	CORE COVER (Optional)	MODIFIERS (Optional)
C = Bleached Cotton	0.5	T = 1.50" (38 mm)	975 = 9 ¾" (248 mm)	T = Tin Plate Steel	No Symbol = None	No Symbol = None
CC = FDA Bleached Cotton	1	R = 1.75" (44 mm)	10 = 10" (254 mm)	P = Polypropylene	V = Specified Cover	V = Specified Cover
CN = Natural Cotton	3	B = 2.00" (51 mm)	195 = 12 ½" (495 mm)	A = 304 SS		
R = Rayon	5	F = 2.38" (60 mm)	20 = 20" (508 mm)	S = 316 SS		
G = Fiberglass	10	A = 2.50" (64 mm)	2925 = 29 ¼" (743 mm)	C = Tin Wildcat		
P = Polypropylene	20	S = 2.63" (67 mm)	295 = 25 ½" (749 mm)			
PP = Polypropylene FDA	25	D = 2.35" (70 mm)	30 = 30" (762 mm)			
PE = Polyester	30	E = 3.00" (76 mm)	40 = 40" (1016 mm)			
	40	J = 3.50" (89 mm)				
	50	L = 4.00" (102 mm)				
	75	Q = 4.1/4" (108 mm)				
	100					
	150					