

MicroSentry™ MS Series

Wound Filter Cartridges



- Precision winding patterns ensure accurate filtration ratings and high retention efficiencies
- State-of-the-art computerized production machinery eliminates product variability
- Various fibers and core materials for compatibility with a broad range of chemicals and high temperature applications
- Suitable for filtration of liquids, compressed air and gases
- Cost-effective and proven versus melt blown, spun-bond and resin-bonded cartridges
- Available in standard 2 1/2" and 4 1/2" (BB Style) cartridge diameters

Applications

Oils	Air / Gas
Petrochemicals	Photo Solutions
Magnetic Coatings	Process Water
Food & Beverage	Solvents
Pre-filtration	Paint / Inks
Water & Wastewater	Chemicals

Specifications & Operating Parameters

Pore Sizes 0.5, 1, 3, 5, 10, 20, 25, 50, 100 microns

Nominal Lengths 2.5" Dia - 9 3/4", 9 7/8", 10", 20", 30", 40"
4.5" Dia - 10" & 20" Only

Outside Diameters 2 1/2" & 4 1/2"

Inside Diameter 1"

Materials of Construction

Filter Media:

FDA Polypropylene, Industrial Polypropylene, FDA Bleached Cotton, Industrial Bleached Cotton, Polyester

Core:

Polypropylene, 304 Stainless Steel, 316 Stainless Steel, Tin Steel

Maximum Operating Temperature

Material	Polypropylene Core	Metal Core
Cotton	140°F (60°C)	250°F (121°C)
Polypropylene	140°F (60°C)	180°F (82°C)
Polyester	140°F (60°C)	275°F (135°C)

Recommended Change-out Differential Pressure

20 psid (1.4 bar)

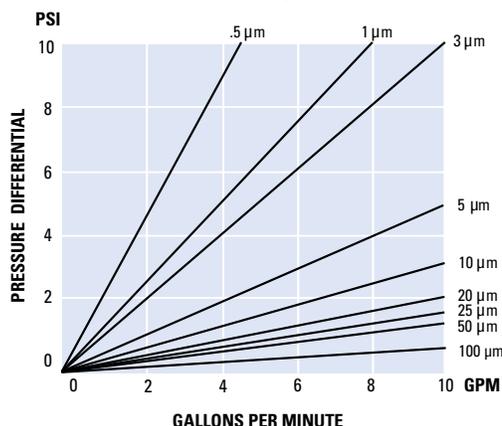
FDA Compliance

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

FILTER MEDIUM	FDA COTTON	COTTON	FDA POLYPROPYLENE	INDUSTRIAL POLYPROPYLENE	POLYESTER
Compatible with					
Potable liquids, water	4	0	4	0	3
Organic Solvents	4	4	3	3	4
Oils	4	4	2	2	3
Organic Acids	3	3	4	4	3
Alkalies	3	3	4	4	0
Oxidizing Acids	2	2	1	1	3
Strong Inorganic Acids	0	0	4	4	2
Dilute Inorganic Acids	2	2	4	4	3

0 = Not Recommended, 1 = Poor, 2 = Fair, 3 = Good, 4 = Excellent

Flow vs. Pressure Drop



This chart represents the typical flow rate of polypropylene media per 10" cartridge length. The test fluid is water at ambient temperature. Extrapolations for multiple lengths tend to be linear, but as flows increase the differential pressure across the housing becomes more apparent.

Ordering Guide (Example: MS10FP5)

MS	10	F	P	5			
PRODUCT CODE	LENGTH	MEDIA	CORE	MICRON	CORE COVER	DIAMETER	END CAP CONFIGURATION & Options
MS	97 = 9 3/4" 98 = 9 7/8" 10 = 10" 20 = 20" 30 = 30" 40 = 40"	C = FDA Bleached Cotton E = Polyester F = FDA Polypropylene P = Industrial Polypropylene W = Industrial Bleached Cotton	P = Polypropylene S = 304 Stainless Steel G = 316 Stainless Steel T = Tin Steel	0.5 1 3 5 10 20 25 50 100	Blank = None N = Non W = Woven	Blank = 2.5" + 45 = 4.5"	Blank = None S3* = 222 w/ Fin End S4* = 222 w/ Flat End S5* = 226 w/ Fin End S6* = 226 w/ Flat End S8 = SOE w/Spring S12* = 222 w/ spring F = Fin End Only FL = Flat End Only EXP = PP Extended Core EXS = SS Extended Core B = Individual Bag BT = Bag and Tag

+ Capping only available on 2.5" diameter filters with polypropylene media and poly core

* Specify O-ring: B = Buna, E = EPR, S = Silicone, V = Viton

Filter Housings

Shelco manufactures a full line of filter housings. From our rugged single cartridge housings to our heavy duty multi-cartridge housings and bag filter housings, Shelco is the perfect choice for your filtration solutions.



Shelco Filters

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