



## MicroSentry™

### Wound Filter Cartridges

Shelco Filters has created the MicroSentry wound cartridge, setting a higher standard for industries requiring cartridge filtration. Our equipment makes achieving precision patterns a matter of standard procedure. Our state of the art computerized production machinery takes the variables out of custom winding and enables us to produce filter cartridges that are accurately wound from a single strand of specially selected fibrous roving material, wound around a perforated core in a nearly perfect geometric pattern.

MicroSentry wound cartridges can be produced from a wide range of materials. With a range of 0.5-150 microns filtration, depending on your requirement for removal of solids from liquids, compressed air or gases. The MicroSentry Cartridges are independently tested to have the highest efficiencies in the industry.

## Applications

Oils  
Photo Solutions  
Food and Beverage  
Chemicals

Air and Gas  
Magnetic Coatings  
Solvents  
Paint/Ink

Petro Chemical  
Process Water  
Pre-Filtration  
Waste Water

## Material Selection Guide

Filter Medium	FDA Cotton	Cotton	FDA Polypropylene	Industrial Polypropylene	Rayon	Polyester	Glass Fiber	Nylon
Compatibility with:								
Potable Liquids, Water	4	0	4	0	3	3	1	1
Organic Solvents	4	4	3	3	4	4	4	4
Oils	4	4	2	2	4	3	4	4
Organic Acids	3	3	4	4	3	3	4	2
Alkalies	3	3	4	4	3	0	1	4
Oxidizing Agents	2	2	1	1	2	3	4	2
Strong Inorganic Acids	0	0	4	4	1	2	4	0
Dilute Inorganic Acids	2	2	4	4	2	3	4	1

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

# Product Specifications

## Maximum Temperature Ratings

Cartridge Material	Polypropylene Core	Metal Core
Cotton	140°F (60°C)	250°F (121°C)
Glass	140°F (60°C)	750°F (402°C)
Nylon	140°F (60°C)	275°F (135°C)
Polypropylene	140°F (60°C)	180°F (82°C)
Polyester	140°F (60°C)	275°F (135°C)
Rayon	140°F (60°C)	275°F (135°C)

## Operating Conditions

Recommended Change out: 25 PSID

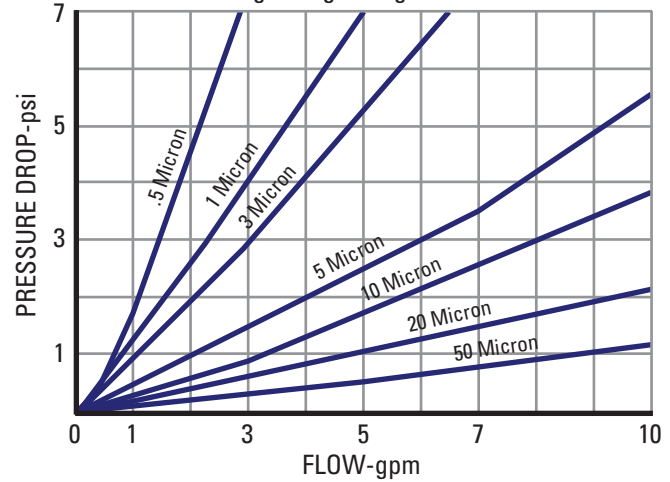
Maximum DP at ambient temperature: 60 PSI

### Note:

For additional compatibility, flow rates and temperature requirements please consult the factory or your local Shelco distributor.

## Water Based Flow Chart

using a single length element



## ORDERING GUIDE

MS	10	C	S	10	N	2	EXP
Product Code	Length	Media	Core	Micron	Core Cover	Diameter	End Treatment
MS	47 = 4 3/4" 5 = 4 7/8" 97 = 9 3/4" 98 = 9 7/8" 10 = 10" 195 = 19 1/2" 20 = 20" 294 = 29 1/4" 30 = 30" 39 = 39" 40 = 40"	B = Fibrillated Polypropylene C = *FDA Bleached Cotton E = Polyester F = *FDA Polypropylene G = Glass Fiber N = Nylon P = Industrial Polypropylene R = Rayon U = Natural Cotton 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 30 50 75 100 150	Blank = None N = Non-Woven W = Woven	Blank = 2 1/2" 2 = 2" 3 = 2 3/8" 4 = 2 3/4" 45 = 4 1/2"	EXP = PP Core Extender EXS = SS Core Extender 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 EPR = EPR Gaskets Buna = Buna Gaskets F = Fin End Only FL = Flat End Only

Example: MS10PP5

\*FDA cotton and poly meet the FDA guidelines as acceptable for potable and edible liquid contact according to CFR title 21.



Cap Options

## Filter Housings

Shelco manufactures a full line of filter housings. From our rugged single element housings to our heavy-duty multi-rounds and bag housings, we have the right filter for your requirement. Shelco is the perfect choice for your problem solutions.



Single Cartridge Housings



Multi Cartridge Housings



High Flow  
Multi Cartridge Housings



Bag Filters



Jumbo Cartridge Housings



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# SHELCO FILTERS

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