

## 1. Introduction

COX Filter Cloth offer quality micron filter bags. It have widely filtration rate and different sizes. Compare with other filtration applications COX Filter Bags are asimple, easy to use, quick replace and economical choice. The COX needled felt bags are mainly employed where depth filtration is required. Polyester and polypropylene is the dimensional media provides good depth filtration characteristics and high solids loading versus two dimensional media.

## 2. Features

- COX Liquid Filter Bags are quick and easy to change.
- Inside-out flow keeps contaminants enclosed in bag.
- Steel ring or plastic neck material are produced in a environmental friendly.
- Materials used for PP and Polyester conform to the directive for plastic materials and articles intended to come into contact with food stuffs (food & beverage)
- Filter bags and bag filter housings are usually used as closed systems, but open or end-of-pipe application are attractive alternatives.
- The standard COX micron filter bags are sized to fit into most popular brands baskets and housings. Special sizes are available on request.



### 3. Description

- COX micron felt filter bags with Snap-Collar are sewn as standard at the ring, have a welded body seam and are sewn at the bottom seam. Other configurations available depending on material.
- The polyester and polypropylene filter bags are equipped with handles as standard:
- S, SS, PO: Finger grips inside bag (size 1, 2: slits in felt). An additional handle strap is optional, from the same material as needledfelt.
- Handles in ring is available.

### 5. Sealing & Surface Treatment

- Excellent sealing is import to keep the filter function. A good seal between bag and support basket is great importance. There are two way to handle this problems:  
The Snap-Collar: a felt-covered metal or plastic ring. It can neatly into the upper collar of the support basket. The felt serves as the sealing.  
The plastic ring(with handles) which tightly fits into standard baskets.

### 7. Surface Treatment

- Needle PP and Polyester fabric will do finish treatment to keep the filtration bag have excellent filter funciton. During the thermal treating process the softened fibres bonded together on the downstream side of the bag.

### 8. Order Code(Needle Type)

Example	PE	1	P1	P	W	Bag construction
Material						No Symbol: Sewn
PE=polyester				Neck material:		W = Welded
PP=polypropylene				P = Plastic		
Micron rating [ $\mu\text{m}$ ]				S = Carbon Steel Ring		
PE: 0.1, 0.5, 1, 5, 10, 25, 50, 75, 100, 150, 200				SS = Stainless Steel Ring		
PP: 0.1, 0.5, 1, 5, 10, 25, 50, 75, 100, 150, 200						
micron ratings for other materials on request						
Bag dimensions		Bag Sizes(Inches)				
P1 = size 1 ( $\varnothing$ 180 x 430 mm)		7" x 17"				
P2 = size 2 ( $\varnothing$ 180 x 800 mm)		7" x 32"				
P3 = size 3 ( $\varnothing$ 105 x 230 mm)		4" x 9"				
P4 = size 4 ( $\varnothing$ 105 x 380 mm)		4" x 15"				
P5 = size 5 ( $\varnothing$ 105 x 254 mm)		4" x 10"				
P6 = size 6 ( $\varnothing$ 150 x 559 mm)		6" x 22"				

### 9. Order Code(Weave Type)

Example	PO	50	P1	SS	W	Bag construction
Material						No Symbol: Sewn
PE = Polyester				Neck material:		W = Welded
NMO = Nylon				P = Plastic		
SS = Stainless Steel				S = Carbon Steel Ring		
Micron rating [ $\mu\text{m}$ ]				SS = Stainless Steel Ring		
PE: 50, 75, 100, 125, 150, 200						
NMO: 30, 50, 75, 100, 120, 150, 200, 500						
SS: 5, 10, 25, 50, 100, 120, 150, 200, 500						
micron ratings for other materials on request						
Bag dimensions		Bag Sizes(Inches)				
P1 = size 1 ( $\varnothing$ 180 x 430 mm)		7" x 17"				
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P5 = size 5 ( $\varnothing$ 105 x 254 mm)		4" x 10"				
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### 4. Type & Sizes

- COX Filter Cloth needled felt bags are available as standard in polyester or polypropylene with many different micron ratings(0.1,0.5,1,5,10,25,50,100,200). Other materials such as nylon(PA), and Nomex® are available on request.
- COX Filter Cloth micron filter bags seal with either a Snap-Collar seal comprising of either carbon steel, stainless steel or polypropylene or with a plastic seal flange. For open systems (uses outside a filter housing) the filter bags can also be supplied without any ring or with a pull cord.

### 6. Multi layered and pleated felt bags

- COX Filter Cloth Multiple layers Micron Filter Bags with or pleats offer advantages when removing particles which are difficult to filter and have a longer service life. For information on COX Filter Cloth multi layered or pleated felt bags please contact us.