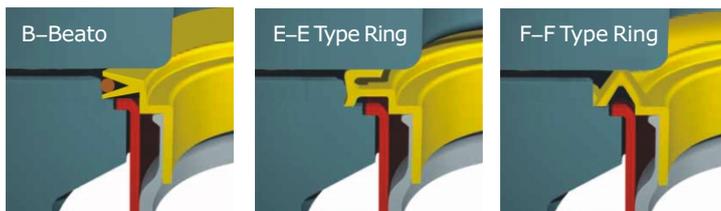




Welded Felt Bag Filters

Overview

When your application requires the highest level of purity and filtration performance, you can count on Feature-Tec's comprehensive line of fully welded bag filters. Utilizing the most advanced technology available anywhere, each filter is guaranteed to fit any industry-standard housing and be free from leakage or bypass.



Applications

- Fresh or sea water
- Membrane or fine filter pre-filtration
- Automotive coating systems
- Electrophoretic paint and plating
- Emulsion or gel removal
- Lubricating or hydraulic oils
- Edible oils and juices
- Gum resins and solvents



Features

- Fully-welded construction to eliminate bypass through stitch holes in standard sewn construction.
- Thread-free construction to eliminate possible sources of contamination.
- Ideal for soft or hard particles or heavy loading with frequent change-out.
- Four standard bag sizes to match flow rate to filter area.
- Integral handles to make change-out fast and easy.
- Available in polypropylene or polyester for fluid compatibility in a broad range of acids, bases, solvents and aromatic hydrocarbons.
- Service temperatures from - 65°C to 140°C.
- Food-grade models available for guaranteed purity.

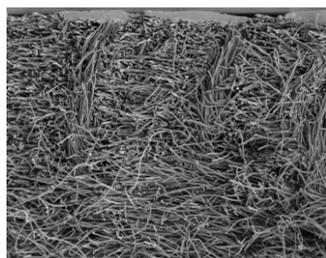
Greener World & Better Life



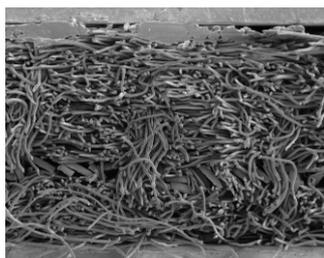
Extended Life Filter Bags for Economy in Tough Applications

What is XL Media?

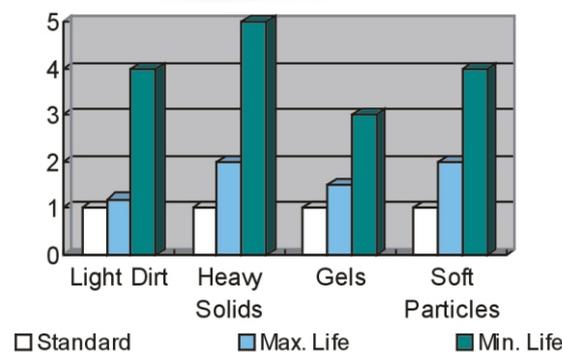
Needled felts have long been the media of choice for tough industrial applications. Extended life felts offer depth filtration with greater dirt capacity while maintaining efficiency. An optimized fiber mix and depth construction immobilizes contaminants to prevent blinding off surface area. The result is 2 - 5 times the service life in many difficult applications. Owing to their optimized depth construction, XL felts are ideal to handle tricky contaminants such as gels or emulsions. They can be captured within the media and prevented from extrusion or migration under differential pressure loading.



SEM image of XL media



SEM image of standard felt



Features

- Fully - welded construction to eliminate bypass
- Optimized depth loading media for high loads
- Rugged surface finish holding for two to three times service life
- Deep media structure to secure soft particles, emulsions and gels

Polymeric Seal Ring

All extended life filter bags are fitted with Feature-Tec polymeric seal rings. A variety of shapes and materials are available to assure bypass-free performance and resistance to aggressive fluids.

Category	Code	Material	Design Temp (°C)	001	005	010	025	050	080	100	125	150	175	200	250	300	400	600	800	1000	1250	
Needled-punched Felt Filter Bag	PO	Polypropylene	90	●	●	●	●	●		●												
	PE	Polyester	140	●	●	●	●	●		●				●								
	NT	Nemax	220	●	●	●	●	●														
	PT	Polyfluortetraethylene	240	●	●	●																
Long-life Filter Bag	POXL	Long-life polypropylene	90	●	●	●	●	●		●												
	PEXL	Long-life polyester	140	●	●	●	●	●		●												
Nylon Monofilament Mesh Filter Bag	NMO	Nylon monofilament mesh	170				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Absolute Precision Filter Bag	SAH	Absolute precision filter bag	90	●	●	●	●															
High-precision Oil-absorbing Melt-blowing Filter Bag	OAS	Melt-blown polypropylene	90	●	●	●	●	●														
	OAH	Melt-blown polypropylene	90	●	●	●	●	●														
Folded Filter Bag	POP/PEP	Folding filter bag	90 / 140		●	●	●	●		●				●								
Active Carbon Filter Bag	AC	Activated carbon filter bag	95		●																	

Feature-Tec

Greener World & Better Life



Standard Sewn Bag Filters

Overview

Feature-Tec's industry-standard sewn filter bags offer economic performance with broad flexibility of construction. Formed using special stitching techniques, these workhorses can stand up to the widest variety of temperature, pressure and fluid conditions available from any filtration technology.

Sewn constructions make possible the use of materials which cannot be joined by other techniques such as welding, thermal or adhesive bonding to produce elements tailor-made for separation applications.

Needled felt is the most common media and provides nominal filtration in a variety of materials. The downstream surface is thermally bonded to prevent fiber migration into the filtrate. Depth filtration captures contaminants and secures them within the bag for disposal with the filter element.

Thermally-stabilized meshes offer precise aperture ratings for absolute filtration. The rugged meshes can be washed and reused multiple times for economic operation.



Applications

- Automotive coating systems
- Fresh or sea water
- Membrane or fine filter pre - filtration
- Electrophoretic paint and plating
- Gum resins and solvents
- Emulsion or gel removal
- Lubricating or hydraulic oils
- Edible oils and juices



Features

- Four standard bag sizes to match flow rate to filter area.
- Precision stitching to minimize bypass and maximize strength.
- Available with either stainless-steel sewn-in-place or plastic seal ring to fit any standard or custom vessel.
- Ideal for soft or hard particles or heavy loading with frequent change-out.
- Wide range of materials such as PP, PE, PA and PTFE to match temperature and aggressive fluids with media properties.

Greener World & Better Life



Vast Variety of Media for Every Filtration Requirement

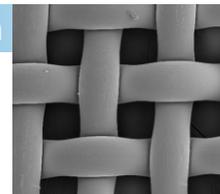
Needled Felt Media

Filtration felts are formed when fibers are thoroughly entangled by a rapidly moving bed of needles, producing a matrix which is both strong and permeable without the need for binders. The surface on the outlet side is singed with heat to assure no fibers will migrate into the filtrate. Since the process is mechanical, felt can be produced from nearly any fiber. Sewn bag filters can handle the full temperature range of - 65°to 300°C in acids, bases, alkalies, organic solvents and oils. Felts are recommended for heavier dirt loading and for situations where solids can be disposed of along with the filters.



Mesh Filtration Media

Monofilament meshes are an economic option for absolute, reusable filters. After weaving, the fabric passes through heated rollers which stabilized the thread spacing. After use, the filters can be washed and reused time and time again for economic operation. Meshes are recommended for light dirt loading, for retention of particles of specific sizes or for solids recovery.



Steel Seal Ring

The most economic inlet seal is formed from a steel ring sewn into a layer of filtration media. The media itself provides a thick, compressible seal for nominal filtration service. A handle compatible with fluid conditions is sewn into the media for easy, secure bag removal.



Polymeric Seal Ring

For more demanding applications, Feature - Tec sewn bag filters can be fitted with one of a variety of plastic rings designed to deliver dependable sealing in industry-standard housings. A polymeric or elastomeric seal assures bypass-free operation.

Feature-Tec's advanced composite construction offers a flexible sealing surface bonded to the rigid plastic ring to deliver bypass - free performance over the full operating range of temperature and pressure.

	PO	PE	NT	PTFE
Acids	●			●
Bases	●		●	●
Solvents	●	●		●
Oils		●		●
Water	●	●		●
100<T<140		●	●	●
140<T<280			●	●

Category	Code	Material	Design Temp (°C)	001	005	010	025	050	080	100	125	150	175	200	250	300	400	600	800	1000	1250	
Needled-punched Felt Filter Bag	PO	Polypropylene	90	●	●	●	●	●		●												
	PE	Polyester	140	●	●	●	●	●		●				●								
	NT	Nemax	220	●	●	●	●	●														
	PT	Polyfluortetraethylene	240	●	●	●																
Long-life Filter Bag	POXL	Long-life polypropylene	90	●	●	●	●	●		●												
	PEXL	Long-life polyester	140	●	●	●	●	●		●												
Nylon Monofilament Mesh Filter Bag	NMO	Nylon monofilament mesh	170				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Absolute Precision Filter Bag	SAH	Absolute precision filter bag	90	●	●	●	●															
High-precision Oil-absorbing Melt-blown Filter Bag	OAS	Melt-blown polypropylene	90	●	●	●	●	●														
	OAH	Melt-blown polypropylene	90	●	●	●	●	●														
Folded Filter Bag	POP/PEP	Folding filter bag	90 / 140			●	●	●		●							●					
Active Carbon Filter Bag	AC	Activated carbon filter bag	95		●																	

Feature-Tec

Greener World & Better Life



Needle Felt Filter Bag

Overview

Needled felt is the most common media used in economic disposable bag filters. Its fibers are locked together when they pass through beds of special barbed needles, entangling them into a strong matrix. The downstream side is singed using a special heat process to eliminate fiber migration. This rugged media is ideal for fabrication by both sewing and welding.

Available in a wide range of materials, needled felts can be used in a vast range of liquids and gases of low to medium viscosity. They can be applied to remove hard particles or, in some cases, soft particles and gels. Feature-Tec offers needled felts in PO, PE, PA and PTFE in the full range of bag sizes.



Features

- Needling and heat singeing lock fibers into the media.
- Available in fully welded construction to eliminate bypass.
- Effective on both low and medium viscosity liquids.
- Removes soft and hard particles even at high flow rates.
- NT and PTFE available for high temperature or aggressive fluid applications.
- Seal options include both plastic rings and economical stainless steel.

	Filter area (m ²)	Diameter (mm)	Length (mm)
No.1	0.25	178	420
No.2	0.48	178	810
No.3	0.09	102	230
No.4	0.16	102	410



PO	S. Acid	W. Acid	W. Alkali	S. Alkali	Solvent	< 90°C
PE	S. Acid	W. Acid	W. Alkali	S. Alkali	Solvent	< 140°C
NT	S. Acid	W. Acid	W. Alkali	S. Alkali	Solvent	< 220°C
PTFE	S. Acid	W. Acid	W. Alkali	S. Alkali	Solvent	< 240°C

	Media Rating (µm)	001	005	010	025	050	080	100	125	150	175	200
PO		●	●	●	●	●		●		●		●
PE		●	●	●	●	●		●		●		●
NT		●	●	●	●	●		●				
PT		●	●	●								

Applications

- Membrane prefiltration
- Syrups
- Recycled water
- Lubricating oils
- Electrophoretic paint and plating solutions
- Amines
- Gum resins and solvents
- Chemicals
- Powders

Order Information

PO	1	P	02	P	B
Code:	Media Rating:	Cover:	Bag Size:	Ring:	Ring Type:
PO	1	P - Plain	01 - No.1	P - PP	B - Beato Ring
PE	5	N - Nylon Mesh	02 - No.2	W - PE	E - E Type Ring
NT	10		03 - No.3	S - SS	F - F Type Ring
PT	...		04 - No.4	Z - CS Galv	
	200				

Greener World & Better Life



Super Life Filter Bag

Overview

Feature-Tec Super-Life bag filters keep going when others plug or fail. Formed from a special blend of fibers, Super-Life media utilize a depth-loading structure which combines a deeper matrix of fine fibers to extend filter life while retaining efficiency.

These features add up to filter life which can be 2 - 5 times longer than conventional media. In addition, the extra filtration depth can remove soft particles and gels which cannot be handled by normal felt media.

PP and PE media receive a special heat treatment to eliminate fiber migration, making them both suitable for automotive coating applications.



PP/PE material is specially heat treated to assure no fiber migrate. It is suitable for painting work in the automotive industry.

Features

- Finer fiber structure increases dirt holding capacity of filtration layers.
- Increased run times decrease downtime and reduce change-out costs.
- Fibers locked in place to prevent migration.
- Fully welded construction enhances strength and prevents bypass.
- Applicable to a wide range of fluid viscosities and contaminants.

	Filter area (m ²)	Diameter (mm)	Length (mm)
No.1	0.25	178	420
No.2	0.48	178	810



POXL	S.Acid	W.Acid	W.Alkali	S.Alkali	Solvent	<90°C
PEXL	S.Acid	W.Acid	W.Alkali	S.Alkali	Solvent	<140°C

	Media Rating (µm)	001	005	010	025	050	080	100	125	150	175	200
POXL		●	●	●	●	●		●				
PEXL		●	●	●	●	●		●				

Applications

- Membrane prefiltration
- Syrup
- Recycled water
- Lubricating oils
- Electrophoretic paint and plating solutions
- Amines
- Gum resins and solvents
- Chemicals
- Powders

Order Information

POXL	1	P	02	P	B
Code:	Media Rating:	Cover:	Bag Size:	Ring:	Ring Type:
POXL	1	P - Plain	01 - No.1	P - PP	B - Beato Ring
PEXL	5		02 - No.2	W - PE	E - E Type Ring
	10				F - F Type Ring
	...				
	100				

Feature-Tec

Greener World & Better Life



Nylon Monofilament Filter Bag

Overview

Nylon monofilament (NMO) filter bags are produced from special, filtration grade mesh. These rugged materials are precisely woven and heat stabilized to produce fixed and constant apertures. As a result, NMO bags have absolute filtration ratings from 25 - 1250 μm . making them ideally suited for hard particle removal and retention. In many cases, they can be washed multiple times for economic use.

Features

- Heat-stabilized mesh resists deformation.
- Inlet mouth reinforcing strengthens the structure and provides a compressible seal.
- Reinforced side seams on lower micron ratings eliminate stitch hold bypass.
- Effective on hard particles.
- Can be washed and reused multiple times.
- Available with stainless steel or plastic seal rings in standard and custom sizes.



NMO ~~S.Acid~~ ~~W.Acid~~ W.Alkali S.Alkali Solvent <170°C

Applications

- Raw water
- Pre-filtration
- Coarse and fine filtration at moderate dirt loading
- Automotive coating and degreasing
- Cutting solutions
- Recycled water

	Filter area (m ²)	Diameter (mm)	Length (mm)
No.1	0.25	178	420
No.2	0.48	178	810
No.3	0.09	102	230
No.4	0.16	102	410

Order Information

NMO	1	P	02	P	B
Code: NMO	Media Rating: 25 ... 1250	Cover: P - Plain	Bag Size: 01 - No.1 02 - No.2 03 - No.3 04 - No.4	Ring: P - PP S - SS Z - CS Galv	Ring Type: B - Beato Ring E - E Type Ring F - F Type Ring



Greener World & Better Life



Absolute Accuracy Filter Bag

Overview

Feature-Tec Absolute Accuracy bag filters are formed from 100% pure polypropylene microfibers, eliminating additives which can contaminate filtrate. The extremely fine fibers structure produces high filtration efficiency and huge contact area with the filtration.

By nature, polypropylene is hydrophobic and oleophilic, meaning the fiber surfaces attract oils but repel water. This gives Absolute Accuracy bags the ability to separate and remove oils from aqueous solutions.

Robust fully-welded construction assures that Absolute Accuracy bag filters will produce bypass-free performance in a wide variety of tough services. They are particularly suitable for fine chemicals, foods, beverages and pharmaceuticals. When used in coatings and inks, Absolute Accuracy bags can remove oils while providing fine, absolute filtration.



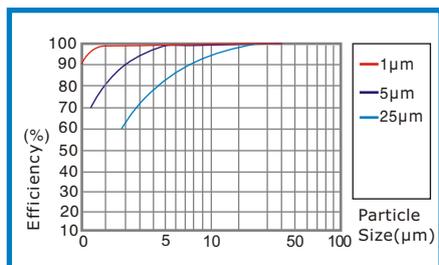
Made of 18-layer, 100%-pure polypropylene with filtration efficiency >99.5%



Features

- Made of 100%-pure polypropylene.
- Multi-layer structure with near-absolute efficiency.
- Seamless construction assures by pass-free performance.
- Available in Sizes 01 and 02.

SAH	S.Acid	W.Acid	W.Alkali	S.Alkali	Solvent	<90°C						
	Media Rating (µm)	001	005	010	025	050	080	100	125	150	175	200
SAH		●	●	●	●							



	Filter area (m ²)	Diameter (mm)	Length (mm)
No.1	0.25	178	420
No.2	0.48	178	810

Applications

- Developing solutions
- Fine chemicals
- Juice clarification
- Pharmaceutical
- Decoloring agents
- Industrial coatings

Order Information

SAH	1	M	02	P	B
Code:	Media Rating:	Cover:	Bag Size:	Ring:	Ring Type:
SAH	0.6	M - PP Mesh	01 - No.1	P - PP	B - Beato Ring
	0.8		02 - No.2	S - SS	E - E Type Ring
	1			Z - CS Galv	F - F Type Ring
	5				
	10				
	25				

Feature-Tec



Oil Adsorption Filter Bag

Overview

Feature-Tec OAH Oil-Adsorption filter bag is made from high-precision polypropylene microfibers. The ultra-fine oleophilic fibers produce an adsorption surface to give excellent results in removing even trace oils from aqueous solutions. The materials are resistant to acids and alkalines and are rigid for tough services. This combination of high efficiency and oil-adsorption is perfect for a wide range of chemical, coating and food applications.



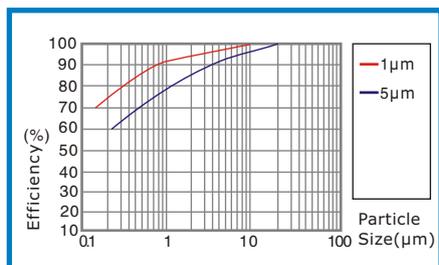
Features

- Pure polypropylene construction assures contaminant-free filtration.
- Thick depth filtration for enhanced dirt holding capacity.
- >90% efficiency ensures high-quality filtration with oil removal.
- Versatile performance can match the most demanding customer's requirements.

Oleophilic fiber structure creates a veritable oil magnet

OAH S.Acid W.Acid W.Alkali S.Alkali ~~Solvent~~ <90°C

Media Rating (µm)	001	005	010	025	050	080	100	125	150	175	200
OAS (Standard)	●	●	●	●	●						
OAH (long-life)	●	●	●	●	●						



Applications

- Syrups
- Electrophoretic paint
- Juice clarification
- Boiler condensate
- Decolorants
- Copper foil production

	Filter area (m ²)	Diameter (mm)	Length (mm)
No.1	0.25	178	420
No.2	0.48	178	810



Order Information

OAH	1	M	02	P	B
Code:	Media Rating:	Cover:	Bag Size:	Ring:	Ring Type:
OAS	1	M - PP Mesh	01 - No.1	P - PP	B - Beato Ring
OAH	5		02 - No.2	S - SS	E - E Type Ring
	10			Z - CS Galv	F - F Type Ring
	25				
	50				

Greener World & Better Life



Pleated Filter Bag

Overview

Feature-Tec's unique POP extended surface bag filter packs more media into a conventional housing than any other industry option. Multiple folds of media lower bag pressure drop and increase dirt-holding area for unparalleled enhancement of filter life. A patented internal core creates rigidity and labyrinthal flow passages.

Available in FDA-compliant materials, POP filters can extend life up to 6times over conventional bag designs.



Features

- Convoluted structure prevents any single surface from blinding or clogging.
- Structure progressively removes dirt, leading to long life.
- Lower initial pressure drop.
- Broad chemical compatibility.

Media is folded using a novel and unique method, resulting in a three-fold increase in filtration area. The expanded surface and volume can produce more than 6times filter life.

	Filter area (m ²)	Diameter (mm)	Length (mm)
No.2	1.2	178	810

POP	S.Acid	W.Acid	W.Alkali	S.Alkali	Solvent	<90°C
PEP	S.Acid	W.Acid	W.Alkali	S.Alkali	Solvent	<140°C

	Media Rating (µm)	001	005	010	025	050	080	100	125	150	175	200
POP			●	●	●	●		●				●
PEP			●	●	●	●		●				●

Applications

- Ion exchange
- Fine chemicals
- Juice clarification
- Pharmaceutical
- Decoloring agents
- Industrial coating

Order Information

POP	1	P	02	P	B
Code:	Media Rating:	Cover:	Bag Size:	Ring:	Ring Type:
POP	5	M - PP Mesh	02 - No.2	P - PP	B - Beato Ring
PEP	10	/PE Mesh		W - PE	E - E Type Ring
	...			S - SS	F - F Type Ring
	200			Z - CS Galv	



Internal support core

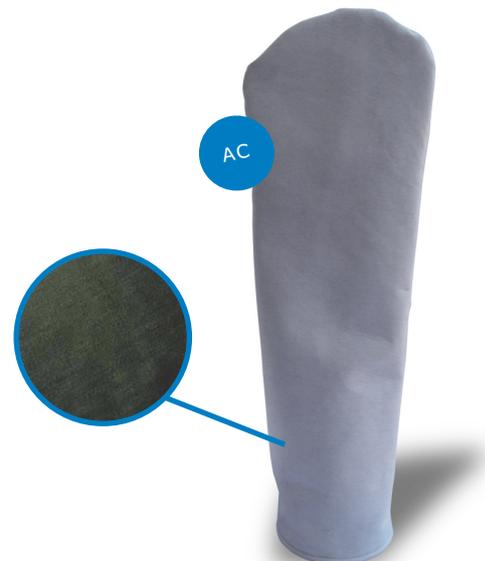
Feature-Tec



Activated Carbon Filter Bag

Overview

Feature-Tec's Activated Carbon filter bag can eliminate unwanted odors, tastes, organic contaminants and even some heavy metals from filtrates. Activated carbon fibers offer up to 10x the adsorbing area as standard granular carbon. The tortuous path produced by the fibrous structure creates a prolonged contact time and effective adsorption of a wide range of substances. Feature-Tec Active Carbon bags can be applied in any application where removal of trace chemicals is required to improve filtrate purity.



High filtration and adsorption rates. Removal capacities up to 10x greater than granular carbon.

Features

- Withstands both strong acids and alkalies
- High temperature resistance
- Expanded adsorption and deodorization capability
- Can be used with hazardous materials
- Leak-tight seal with either plastic or stainless steel seal rings

AC S.Acid W.Acid W.Alkali S.Alkali Solvent <95°C

	Media Rating (µm)	001	005	010	025	050	080	100	125	150	175	200
AC			●									

	Filter area (m ²)	Diameter (mm)	Length (mm)
No.1	0.25	178	420
No.2	0.48	178	810
No.3	0.09	102	230
No.4	0.16	102	410

Applications

- Deodorization
- Recycled water
- Degreasing
- Electroplating fluids
- Syrup decoloration
- Drinking water de-chlorination



Order Information

AC	1	P	02	S	
Code:	Media Rating:	Cover:	Bag Size:	Ring:	Ring Type:
AC	5	M - PP Mesh N - Nylon Mesh	01 - No.1 02 - No.2 03 - No.3 04 - No.4	S - SS Z - CS Galv	—

Greener World & Better Life