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Sewn End Filter Elements

Sewn End Filter Elements have rugged metal baskets and hand sewn media that match a design proven for decades. These elements are constructed entirely from metal and textile media, without needing any potting material or synthetic end seals. They can endure services with otherwise difficult chemistry or high temperatures that molded end elements or some adhesives used in metal ended filters could not withstand.

We start with heavy duty 16 & 20 ga. center cores with 58% open area for lower ΔP . *Competitors will often use expanded metal or off grade perf.* Large elements get solid steel support rings and welded lift lugs to assist you in handling. We double weld for superior strength. Our standard deck wire is woven to width. *Competitors will often use mild steel screen (rusts) with raw cut edges that can poke through the media.* When a non-standard width is required, we do something no one else does, we fold it. We preclude the chance for sharp wires to damage the crucial filter media, or even more importantly, your hands! Our radius cut notch ring reliably secures the pleated deck wire assembly to the element core. *Others use square cut notch ring that fails.* Standard sewn end filters (those with cat#s ending with K5) use corrosion inhibited carbon steel cores, epoxy coated deck wire, and high flow 10 μ (98%) polyester felt media. For corrosive services, we offer optional 304 or even 316 stainless steels. A wide selection of alternative filter media covers a full spectrum of chemical resistances, with particle retentions down to 1 μ , and service to 700°F.

Factory Recover Service: We recover all brands and makes of sewn end filters. If the soiled filter is safe to handle, return it to us. We will replace the filter media and gaskets, at a fraction of the cost of a new filter. Owing to the extra care we put into the manufacture of our own sewn end filter elements, we can factory recover them forever*.



If your filters are in this condition under their soiled media, they are good candidates to be factory recovered.

Consider new filters if the used core or wire screens are crushed or rusted.

These "baskets" are ruggedly built. Cores are 58% open 16 or 20 ga. steel, all wire screen is epoxy coated and woven to width, notch ring is radius cut, support rings are plentiful. They are durable to enable multiple factory recoveries.

*Please note: *We cannot rebuild filters that have been subjected to hazardous service or environments beyond their design expectations. For safety reasons, MSDS (Material Safety Data Sheets,) or Certificates of Compliance are required prior to accepting filter elements for recovery.*



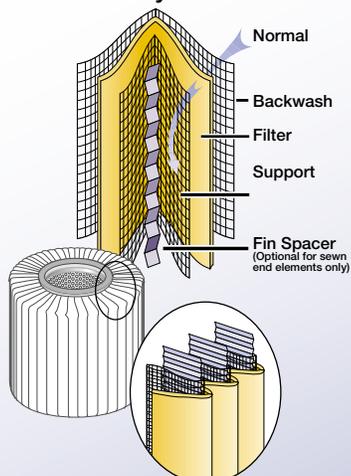
Sewn End Style - Cylindrical, Double Open Ended (DOE) with attached textile gasket seal, perforated steel center core (or when by others possibly inferior expanded metal). Filter media is sewn or ultrasonically bonded over a pleated woven wire cage. The large sewn end filter is illustrated with optional backwash screen banded to the exterior of the filter media. Sewn end style filter elements can serve in high temperatures (700+ °F with all glass filter media) or environments with aggressive chemistry that might otherwise attack filters with molded ends. However, with the newest Polyurethanes now being used, molded ends can replace sewn end elements for most common services at a fraction of the cost.

See <http://www.sparksfilters.com> for more options.

Does your P/N have a -BK- or an -HK- in it?

Sewn end filters may also have optional backwash screen (BK , BN) and/or fin spacers (HK, FK, FN, HN). In the interest of brevity, we did not list each filter with all possible options.

Anatomy of One



Backwash screen is useful if the fluid flow is ever reversed to clean and extend the service life. For top performance, we pleat backwash screen to full height & full fin depths.

Fin spacers are corrugated metal strips placed within the interior pocket of each pleat to promote flow in high ΔP , or liquid service.

We offer all options, including alternate filter media (does your P/N end in different numbers?), and 304SS metal parts (an N vs. a K). Please call if your P/N is close.

Quotation Worksheet - Filter Elements

Print, Fill Out, & FAX Back

Form is also at www.sparksfilters.com **Request A Quote**

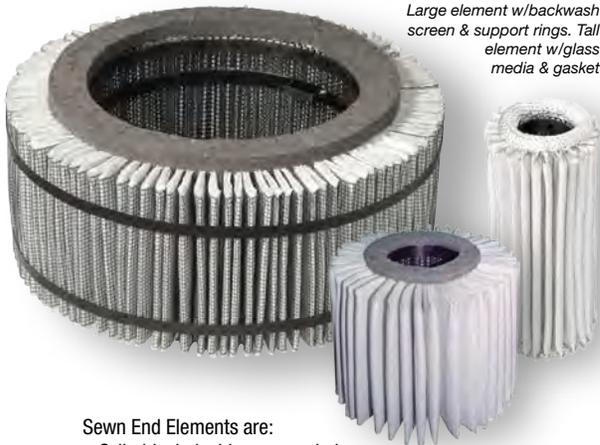
Sparks filter elements are offered in styles and sizes that directly replace OEM elements. We cross reference thousands of filters to assist you in sourcing your replacement needs, while saving you money.

Can you email a digital picture.jpg to: Sales@SparksFilters.com?
 Can you measure the element's ID, OD, OH? If so we can replace it.
 If you only answer the items in red, we can get started.

Your Name _____
 Company _____
 Address _____
 City, State, Zip _____
 Phone _____ Fax _____
 email _____

Is your element a

Sewn End Style ?

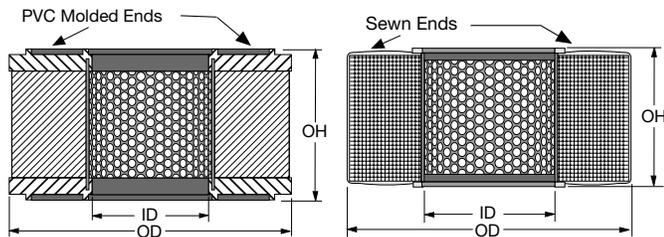


Sewn End Elements are:

- Cylindrical, double open ended.
- Typically four overall heights: 12", 17", 21", or 25".
- Carbon steel (magnetic) or 304SS core. (not magnetic)
- Felt or rope style gasket, die cut or formed.

What end type Is It? (Pick One):

Sewn End _____ Molded End _____ Accordion _____



(Measure ID, OD & OH to closest 1/8 inch)

Inside Diam. of core, or inner support rings.	Outside Diam. ...if it's out of round, measure circumference & divide by 3.14	Overall Height ...set a yardstick across top & measure from underside of the stick to the table or floor.	# of Pleats ±2 ...count a 90° section & multiply by 4.

Are you replacing an existing filter element? _____(Y/N)

Is there a brand name on a tag ? _____

Can you find any part numbers ? _____

Is your element open at both ends? _____(Y/N)

Choose metal parts i.e. center core, rings, wire screens

Coated mild steel [] 304 SS [] . . . or 316 SS []

...carbon steel is magnetic, 304SS and 316SS are not magnetic.

... Or a

Molded End Style ?



Molded End Elements are:

- Cylindrical, double or single open ended.
- Any overall heights.
- Carbon steel (magnetic) or 304SS core (not magnetic)
- Ends are:
 - 1.) Rubber (excellent) or PVC (cheap seats use this)
 - 2.) Silicone (typically red) service to 500°F.

... Or an

Accordion Style ?



Accordion Style Elements are:

- cylindrical, double open ended.
 - Polyester felt filter media.
 - No center core.
- We need only the OH, Fin Depth, and No. of pleats to quote you. There is no "ID"

Filter media (See choices on pg 30) _____

.....#5 (10µ polyester felt) is the most common choice, #7 or #910 close 2nds.

You can mail us a scrap of the existing media if you like.

Do you want a pleated backwash screen ? _____ (Y/N)

... option for Sewn Ends, molded ends include this (unless they are cheap paper)

Do you need internal metal fin spacers ? _____ (Y/N)

... option for Sewn Ends used in liquid service. Quality fin spacers are corrugated.

Operating Temperature? _____ ° F

What fluid are you filtering? _____

...i.e. room air, natural gas, compressor exhaust with oil mist ??

If Molded End Style:

Std. Rubber _____ (Pick one Y/N)

...continuous service to 250°F, intermittently to 350°F, consult us for considerations at elevated temperatures.

OR Aliphatic Hydrocarbon Resistant PVC _____

...continuous service to 200°F, intermittently to 250°F

OR RTV Silicone _____

...continuous serve to 450°F, intermittently to 500°F

Other (Metal perhaps, but is that important?) _____

Other comments _____

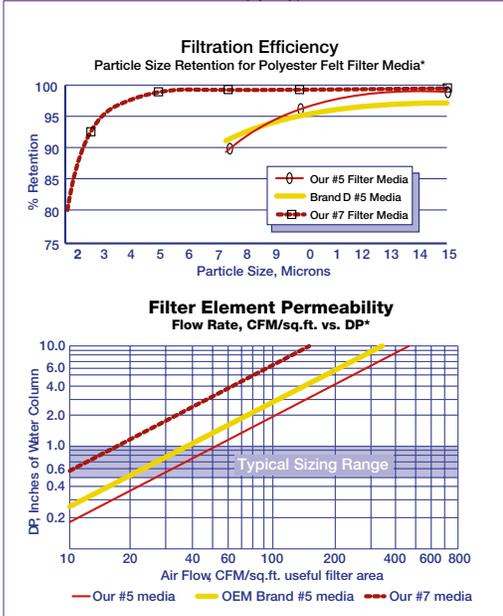
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From left to right above, **SEWN END**, **ACCORDION**, **RUBBER MOLDED END**, and **PANEL** filter elements.

Each style can be supplied with different filter media, and other variations. Our filter elements surpass the most stringent requirements for long life, low ΔP , positive seals, and maximum air flow in compact and cleanable units. Our molded end filter elements do not require a bothersome expanded metal outer wrap to prevent the handling damage common to lesser paper filter media. Instead, we pleat textile filter media between layers of epoxy coated wire screen to yield a rugged jacketed media with 1/4th the resistance to flow of paper media. Jacketed fins resist collapse, have exceptionally high flow, long life (a year is common), and are unharmed by moisture, vibration, pulse flow, and most other service hazards. This also simplifies cleaning with air guns or spray cleaning units. Element cores are 58% open perforated steel. These cores retain column strength where lesser expanded metal, or woven wire cores fail. **Our molded urethane rubber ends out perform lesser molded PVC ends offered by many competitors.** [See http://www.sparksfilters.com](http://www.sparksfilters.com) for more options.

Filter media: (see table) #5 polyester felt is arguably the most rugged, washable, 10 μ media ever offered. Our #7 polyester medium stops 4 μ particles. Elements with 2 μ #51 fiberglass are rugged, but not washable. Our 0.1 μ HEPA grade #904 medium can stop bacteria. Our #916 medium has 50% activated carbon and can strip away undesirable vapors. Our #910 medium outshines other low cost alternatives at stopping the airborne lint and dirt prevalent

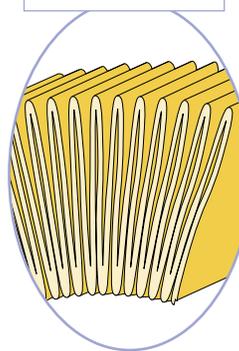


in ambient air sources today. Newest of all, our #907 medium with reverse flow radial fin design effectively coalesces smoke and mists without high ΔP loss!

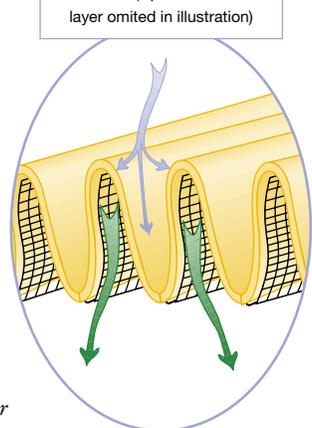
Optional Filter Media

Media Suffix #	Filter Media Description:	Reten.* μ Liq	Reten.* μ Gas	Temp. °F	Style* used in:
1.....	Woven Cotton.....	30.....	≤ 30.....	200.....	S, M
2.....	Rayon Felt.....	> 10.....	200.....	S, M
3.....	Woven Cotton.....	5.....	2.....	200.....	S, M
5.....	Polyester Felt.....	20.....	10.....	300.....	S, M
7.....	Polyester Felt.....	5.....	4.....	300.....	S, M
8.....	Woven Fiberglass.....	15.....	10.....	700.....	S, M
12.....	Cotton Terrycloth.....	20.....	≤ 20.....	200.....	S, M
26.....	304 SS, 100 mesh.....	150.....	150.....	1000.....	M
30.....	304 SS, 200 mesh.....	75.....	75.....	1000.....	M
42.....	Woven Cotton.....	1.....	Not Rated.....	200.....	S, M
47.....	304 SS, 325 mesh.....	40.....	40.....	1000.....	M
51.....	Fiberglass Felt, Yellow.....	> 1.....	1.....	450.....	M
59.....	Woven Nylon.....	5.....	≤ 5.....	250.....	S, M
60.....	Woven Nylon.....	45.....	≤ 45.....	250.....	S, M
61.....	304SS, 200 x 1400 mesh.....	15.....	15.....	1000.....	M
62.....	304SS, 325 x 2300 mesh.....	10.....	10.....	1000.....	M
63.....	Fiberglass Locked/Felt.....	> 1.5.....	1.5.....	500.....	S, M
64.....	Polyester Felt.....	5.....	4.....	300.....	S, M
65.....	Woven Nylon.....	90.....	≤ 90.....	250.....	S, M
66.....	Woven Polyester.....	2.....	Not Rated.....	300.....	S, M
69.....	Dynel, woven.....	2.....	Not Rated.....	200.....	S, M
72.....	Polyester Felt.....	2.....	2.....	300.....	S, M
85.....	Woven Teflon®.....	10.....	≤ 10.....	450.....	S, M
86.....	Teflon Felt.....	10.....	5.....	450.....	S, M
90.....	Polyester Felt.....	Not Rated.....	Not Rated.....	300.....	M
99.....	Polyester Felt - Now a misnomer. Depending upon OEM brand, is either #5 or #7 media. Order #7 media if du is needed.				
100.....	Woven Polypropylene.....	15.....	10.....	175.....	S, M
101.....	Woven Polypropylene.....	10.....	5.....	175.....	S, M
102.....	Woven Polypropylene.....	5.....	3.....	175.....	S, M
103.....	Woven Polypropylene.....	1.....	1.....	175.....	S, M
105.....	Fiberglass Felt, Pink.....	> 2.....	2.....	450.....	M
108.....	Fiberglass Felt, Pink.....	> 0.3.....	0.3.....	450.....	M
111.....	304SS, 50 mesh.....	280.....	280.....	1000.....	M
135.....	Woven Fiberglass.....	6.....	3.....	700.....	S, M
139.....	Nomex Felt.....	10.....	5.....	450.....	S, M
142.....	Polypropylene Felt.....	10.....	5.....	175.....	S, M
169.....	Polyester Felt.....	20.....	10.....	300.....	S, M
200.....	Galv. C.S. mesh.....	750.....	750.....	500.....	M
212.....	Rayon/Nylon Felt.....	50.....	50.....	200.....	S, M
214.....	Rayon/Nylon Felt.....	100.....	100.....	200.....	S, M
418.....	Woven Polyester.....	75.....	75.....	300.....	S, M
703.....	Woven Virgin Teflon®.....	10.....	10.....	450.....	S, M
704.....	Woven Polyester.....	10.....	8.....	300.....	S, M
900.....	Paper / Microglass.....	0.5.....	0.3 abs.....	180.....	M
904.....	Microglass.....	0.5.....	0.1.....	400.....	M
906.....	Microglass combination.....	> 1.....	1.....	200.....	M
907.....	Microglass combination.....	> 0.3.....	≤ 0.3.....	200.....	M
910.....	Polyester/Cotton Felt.....	> 40.....	40.....	300.....	M
916.....	Activ. Carbon/Glass.....	Not Rated.....	Not Rated.....	200.....	M
920.....	Treated Microglass.....	Not Rated.....	1.5.....	400.....	M
921.....	Poly/Glass.....	Not Rated.....	0.1.....	200.....	M
923.....	Polypropylene.....	Not Rated.....	25.....	175.....	M
924.....	Poly/Glass.....	Not Rated.....	< 0.3.....	200.....	M
926.....	Poly/Glass.....	Not Rated.....	< 0.3.....	200.....	M
927.....	Poly/Glass.....	Not Rated.....	< 0.3.....	200.....	M
928.....	304SS mesh, 50 x 200.....	Not Rated.....	60.....	700.....	M
931.....	PTFE Finished Microglass.....	Not Rated.....	4.....	500.....	S, M
932.....	Polyester Felt.....	40.....	25.....	300.....	S, M
..... Call Us For Many Additional Special Purpose Filter Medium.....					
..... * S = Sewn End, M = Molded End.....					

Typical Cellulosic (paper) Media



Fin Design of Textile Media (Upstream screen layer omitted in illustration)



Breathing Room...

Do you really care if dirt gets past your filter? Is it worth trying to save a buck on paper rather than rugged textile media? Oddly enough, paper elements cost much more in the long run. Paper pleats crack where you can't see. The light bulb trick won't reveal the failure(s) either. Moisture can ruin paper. And, be very careful of vibration or handling damage. Elements with high performance textile media benefit from 1/3rd the resistance to flow of paper media. They allow open pleat spacing, higher dirt holding capacity, are practical to clean, have lower ΔP , and longer life. Rugged polyester felt media won't crack, tolerates being soaking wet, and takes a beating. Protect your equipment, use textile media.