Accordion Style Filter Elements

FLTR
Purple Engineering

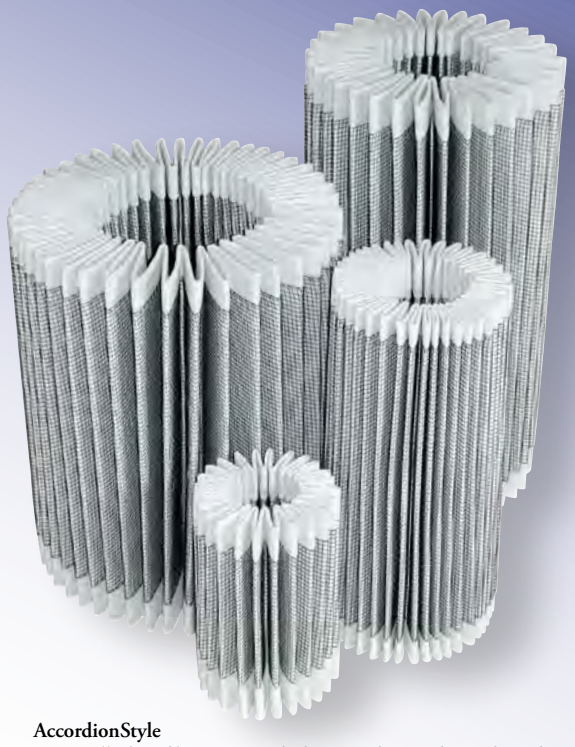
- **Interchange w/Original Equipment**
- **Superior Quality**
- **Longer Life**
- **Lower Cost**
- **Rugged Polyester Media**
- **Significant $avings**
- **Includes PreFilter Wrap**
- **Spray Washable**



Filter element cat# 324-4610WK5 & housing cat# A10-0125-MT-080 w/hood removed. To order Filter Housings that accept accordion style filter elements go to page 17.

Sparks™ Filters accordion style filter elements have no rigid center core, and are stretched to fit over a fixed perforated center tube of the filter housing. They provide rugged duty air inlet protection for engines, compressors, blowers, and other major air handling devices… with high efficiency, and low ΔP. Their 4x4 woven wire support screen is outstanding in pulsating flow services.

Our filter elements directly replace the OEM accordion style filters on industrial blowers, engines, compressors, turbines, and other air/gas handling equipment. We use 100% polyester felt filter media, and unlike others, we pleat to the full original fin depths for up to 33% longer life! Our support wire is woven to width for the standard sizes of elements, eliminating seal damage. Each is supplied complete with pre-filter blanket and installation strap.



AccordionStyle

To install, these filters are stretched over and around a perforated metal cylinder that is a permanent part of the filter housing. Sealing depends upon permanent gaskets at the base of the housing, and in the hood or on the plate cover. Accordion elements are inexpensive relative to their size and area. We also offer rubber molded end style elements that substitute in replacement for the common accordion versions.

OEM Cat #	OEM Brand	FLTR-Cat#
03606283-0001	Joy	324-4610WK5
03606283-0002	Joy	324-4616WK5
03606283-0003	Joy	324-4607WK5
03606283-0004	Joy	324-4604WK5
03606283-0007	Joy	324-4609WK5
03606283-0014	Joy	324-4601WK5
03606283-0015	Joy	324-4602WK5
1-104-405-003	Cooper Engy.	324-4605WK5
1-104-405-004	Cooper Engy.	324-4632WK5
1-104-405-005	Cooper Engy.	324-4608WK5
1-104-405-006	Cooper Engy.	324-4603WK5
1-104-405-007	Cooper Engy.	324-4606WK5
1-104-405-008	Cooper Engy.	324-4604WK5
1-104-405-010	Cooper Engy.	324-4601WK5
1-104-405-011	Cooper Engy.	324-4609WK5
1-104-405-012	Cooper Engy.	324-4607WK5
1-104-405-013	Cooper Engy.	324-4602WK5
1-104-405-014	Cooper Engy.	324-4615WK5
1-104-405-016	Cooper Engy.	324-4614WK5
1-104-405-017	Cooper Engy.	324-4617WK5
1-104-405-018	Cooper Engy.	324-4618WK5
1-104-405-026	Cooper Engy.	324-4616WK5
103621017419	Fuller Cmprsr	324-4616WK5
10500-826	Sunshine	324-4606WK5
10501-826	Sunshine	324-4604WK5
10502-826	Sunshine	324-4610WK5
10503-826	Sunshine	324-4601WK5
10504-826	Sunshine	324-4609WK5
10505-826	Sunshine	324-4607WK5
10506-826	Sunshine	324-4602WK5
10507-826	Sunshine	324-4615WK5
10508-826	Sunshine	324-4616WK5
10509-826	Sunshine	324-4617WK5
10510-826	Sunshine	324-4618WK5
10512-826	Sunshine	324-4614WK5
10513-826	Sunshine	324-4603WK5
11152-826	Consler	324-4606WK5
11153-826	Consler	324-4604WK5
11154-826	Consler	324-4610WK5
11155-826	Consler	324-4601WK5
11156-826	Consler	324-4609WK5
11157-826	Consler	324-4607WK5
11158-826	Consler	324-4602WK5
11159-826	Consler	324-4615WK5
11160-826	Consler	324-4616WK5
11161-826	Consler	324-4617WK5
11162-826	Consler	324-4618WK5
11463-826	Consler	324-4614WK5

OEM Cat #	OEM Brand	FLTR-Cat#
11759-826	Consler	324-4603WK5
12-370E-75	Filtr. Eng.	324-4603WK5
12-370E-76	Filtr. Eng.	324-4606WK5
12-370E-77	Filtr. Eng.	324-4604WK5
12-370E-78	Filtr. Eng.	324-4610WK5
12-370E-79	Filtr. Eng.	324-4601WK5
12-370E-80	Filtr. Eng.	324-4609WK5
12-370E-81	Filtr. Eng.	324-4607WK5
12-370E-82	Filtr. Eng.	324-4602WK5
12-370E-83	Filtr. Eng.	324-4615WK5
12-370E-84	Filtr. Eng.	324-4616WK5
12-370E-85	Filtr. Eng.	324-4614WK5
12-370E-86	Filtr. Eng.	324-4617WK5
12-370E-87	Filtr. Eng.	324-4618WK5
1760464-34	Joy	324-4615WK5
2008156	Gard. Denver	324-4606WK5
2008157	Gard. Denver	324-4604WK5
2008680	Gard. Denver	324-4610WK5
2008861	Gard. Denver	324-4601WK5
2008946	Gard. Denver	324-4603WK5
2008975	Gard. Denver	324-4606WK5
2008985	Gard. Denver	324-4607WK5
2010033	Gard. Denver	324-4609WK5
2109115	Gard. Denver	324-4615WK5
250-74000	Chicago Pneu	324-4601WK5
3-9818197	Caterpillar-EP	324-4616WK5
320019323	Worth Comp Co	324-4609WK5
32001982	Worth Comp Co	324-4610WK5
320019Z1	Worth Comp Co	324-4606WK5
320019Z2	Worth Comp Co	324-4607WK5
320019Z4	Worth Comp Co	324-4602WK5
320019Z5	Worth Comp Co	324-4616WK5
35259654	Ingersoll Rd	324-4604WK5
3606518	Joy	324-4603WK5
3606533	Joy	324-4601WK5
3606911	Joy	324-4606WK5
37046893	Ingersoll Rd	324-4615WK5
37046901	Ingersoll Rd	324-4606WK5
37104726	Ingersoll Rd	324-4602WK5
37104759	Ingersoll Rd	324-4616WK5
37104767	Ingersoll Rd	324-4603WK5
37119534	Ingersoll Rd	324-4610WK5
37119542	Ingersoll Rd	324-4601WK5
37119559	Ingersoll Rd	324-4607WK5
37119781	Ingersoll Rd	324-4609WK5
37165263	Ingersoll Rd	324-4604WK5
40001273	Ingersoll Rd	324-4601WK5
410-632-003	Dresser-Rand	324-4618WK5

OEM Cat #	OEM Brand	FLTR-Cat#
55-PS-1860	Chicago Pneu	324-4601WK5
5748-050000	Chicago Pneu	324-4610WK5
6008210005	Endustra	324-4603WK5
6018210005	Endustra	324-4609WK5
6022210005	Endustra	324-4602WK5
6085210005	Endustra	324-4606WK5
6105210005	Endustra	324-4604WK5
6125210005	Endustra	324-4610WK5
6145210005	Endustra	324-4601WK5
6185210005	Endustra	324-4607WK5
6225210005	Endustra	324-4615WK5
6245210005	Endustra	324-4616WK5
6285210005	Endustra	324-4614WK5
6325210005	Endustra	324-4617WK5
6365210005	Endustra	324-4618WK5
681715P03	Gard. Denver	324-4615WK5
8504019	Gard. Denver	324-4610WK5
8504360	Gard. Denver	324-4606WK5
8504368	Gard. Denver	324-4606WK5
8505848	Gard. Denver	324-4601WK5
8507294	Gard. Denver	324-4604WK5
8507585	Gard. Denver	324-4615WK5
8507948	Gard. Denver	324-4607WK5
8508163	Gard. Denver	324-4618WK5
8508166	Gard. Denver	324-4614WK5
8508167	Gard. Denver	324-4617WK5
8508168, call	Gard. Denver	324-4610WK5
8508173, call	Gard. Denver	324-4601WK5
8508174	Gard. Denver	324-4616WK5
8508175	Gard. Denver	324-4609WK5
855-10-160-10	John Deere	324-4607WK5
87472X0012	DeLaval Turb	324-4616WK5
877-20-010-02	John Deere	324-4606WK5
95212320 elem.	Ingersoll Rd	324-4610WK5
95212353 elem.	Ingersoll Rd	324-4607WK5
95473500 elem.	Ingersoll Rd	324-4609WK5
95648336 elem.	Ingersoll Rd	324-4615WK5
95701744 elem.	Ingersoll Rd	324-4601WK5
95816369 elem.	Ingersoll Rd	324-4604WK5
95820536 elem.	Ingersoll Rd	324-4602WK5
95820585 elem.	Ingersoll Rd	324-4616WK5
95820619 elem.	Ingersoll Rd	324-4614WK5
95820841 elem.	Ingersoll Rd	324-4603WK5
95820890 elem.	Ingersoll Rd	324-4606WK5
990500J14	Worth Comp Co	324-4603WK5
AMO 8	IFM	324-4603WK5
AMO 18	IFM	324-4609WK5
AMO 22	IFM	324-4602WK5

OEM Cat #	OEM Brand	FLTR-Cat#
AMO 85	IFM	324-4606WK5
AMO105	IFM	324-4604WK5
AMO125	IFM	324-4610WK5
AMO145	IFM	324-4601WK5
AMO185	IFM	324-4607WK5
AMO225	IFM	324-4615WK5
AMO245	IFM	324-4616WK5
AMO285	IFM	324-4614WK5
AMO325	IFM	324-4617WK5
AMO365	IFM	324-4618WK5
CF10-01	AIRSAN	324-4604WK5
CF12-01	AIRSAN	324-4610WK5
CF14-01	AIRSAN	324-4601WK5
CF18-01	AIRSAN	324-4609WK5
CF18A-01	AIRSAN	324-4607WK5
CF22-01	AIRSAN	324-4602WK5
CF22A-01	AIRSAN	324-4615WK5
CF24-01	AIRSAN	324-4616WK5
CF28-01	AIRSAN	324-4614WK5
CF32-01	AIRSAN	324-4617WK5
CF36-01	AIRSAN	324-4618WK5
CF8-01	AIRSAN	324-4603WK5
CF8A-01	AIRSAN	324-4606WK5
DA 8-826	Air Maze	324-4603WK5
DA 18-826	Air Maze	324-4609WK5
DA 22-826	Air Maze	324-4602WK5
DA 85-826	Air Maze	324-4606WK5
DA105-826	Air Maze	324-4604WK5
DA125-826	Air Maze	324-4610WK5
DA145-826	Air Maze	324-4601WK5
DA185-826	Air Maze	324-4607WK5
DA225-826	Air Maze	324-4615WK5
DA245-826	Air Maze	324-4616WK5
DA285-826	Air Maze	324-4614WK5
DA325-826	Air Maze	324-4617WK5
DA365-826	Air Maze	324-4618WK5
MS-8714	Nash Eng	324-4607WK5
MS-9886	Nash Eng	324-4609WK5
P1404040-32	Joy	324-4606WK5
PF-6820	Nash Eng	324-4601WK5
PU-3306	Nash Eng	324-4601WK5
SPVA1111	Curtis Toledo	324-4606WK5
UMS-9886	Nash Eng	324-4609WK5
W103030	Ingersoll Rd	324-4609WK5
W103031A	Ingersoll Rd	324-4607WK5
W104186A	Ingersoll Rd	324-4604WK5
W104207A	Ingersoll Rd	324-4610WK5
W104208A	Ingersoll Rd	324-4601WK5
W98726	Ingersoll Rd	324-4616WK5

For more information:

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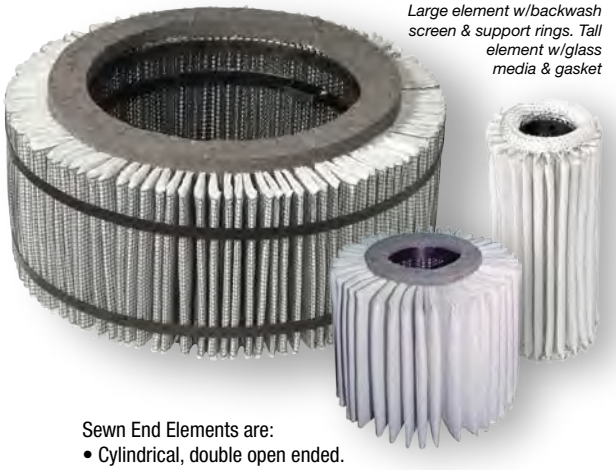
Is your element a

Sewn End Style ?

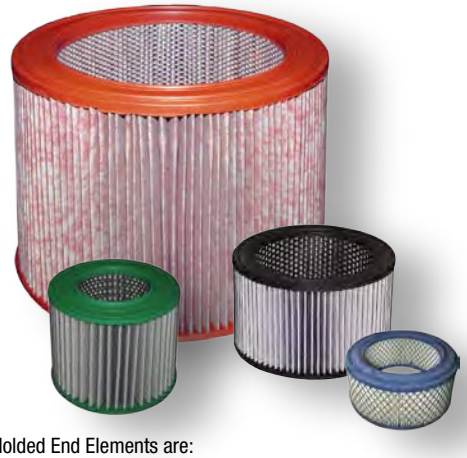


Large element w/backwash screen & support rings. Tall element w/glass media & gasket

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.

... 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 ?

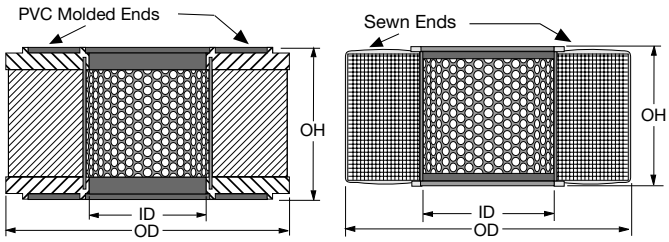


Accordion Style Elements are:
- cylindrical, double open ended.
- Polyester felt filter media.
- No center core.

We need only the OH, Fin Depth, and No. of pleats to quote you. There is no “ID”

What end type Is It? (Pick One):

Sewn End _____ Molded End _____ Accordion _____



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

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

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, intermittenly to 350°F, consult us for considerations at elevated temperatures.

OR Aliphatic Hydrocarbon Resistant PVC _____

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

OR RTV Silicone _____

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

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

Other comments _____

_____

_____

_____

For more information:

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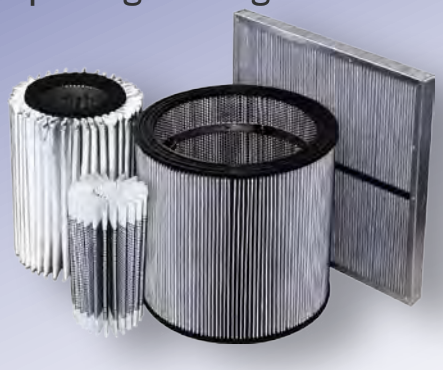
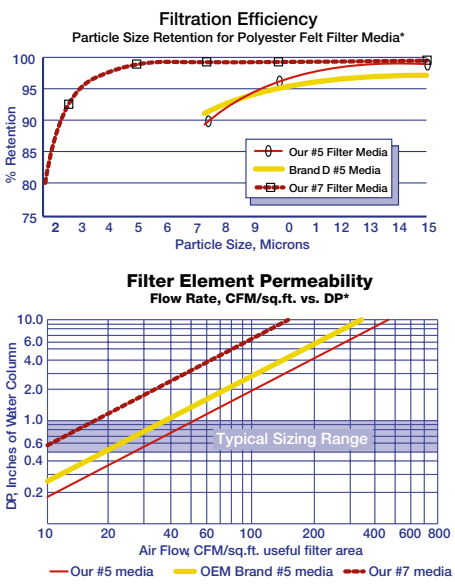


From left to right above, SEWN END, ACCORDION, RUBBER MOLDED END, and PANEL filter elements. Each style can be supplied with different filter media, and other variations. Our filter elements surpass the most stringent requirements for long life, low ΔP, positive seals, and maximum air flow in compact 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 for more options.

Filter media: (see table) #5 polyester felt is arguably the most rugged, washable, 10µ media ever offered. Our #7 polyester medium stops 4µ particles. Elements with 2µ #51 fiberglass are rugged, but not washable. Our 0.1µ 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!



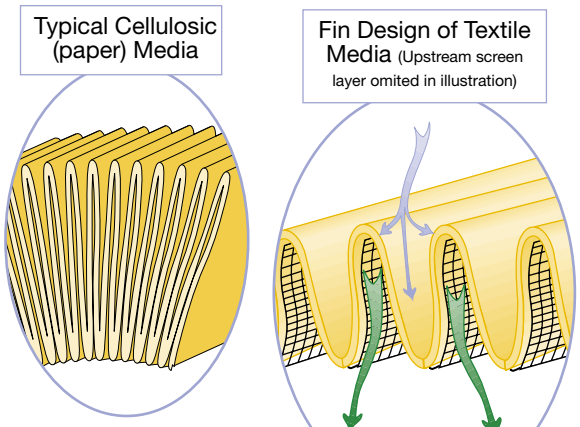
** Instrumentation- HIAC 4100/1100 sensor; Efficiency counts/250 cu.ft.*

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	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	40	300	M
99	Polyester Felt - Now a misnomer. Depending upon OEM brand, is either #5 or #7 media. Order #7 media if 4µ 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



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.

For more information:

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