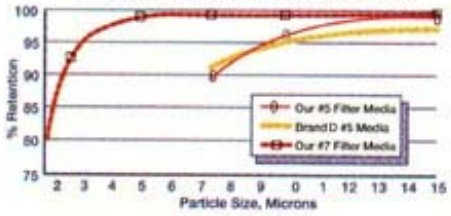
SparksFilters

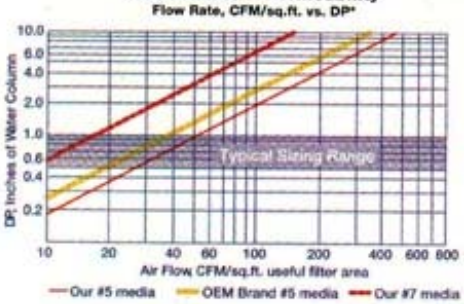
From left to right above, SEWN END, ACCORDION, RUBBER MOLDED END, and PANEL filter elements. Each style can be supplied with different filter media, and other variations. Our filter elements surpass the most stringent requirements for long life, low ΔP, positive seals, and maximum air flow in compact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

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!

Filtration Efficiency
Particle Size Retention for Polyester Felt Filter Media*



Filter Element Permeability
Flow Rate, CFM/sq.ft. vs. DP*



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

Optional Filter Media

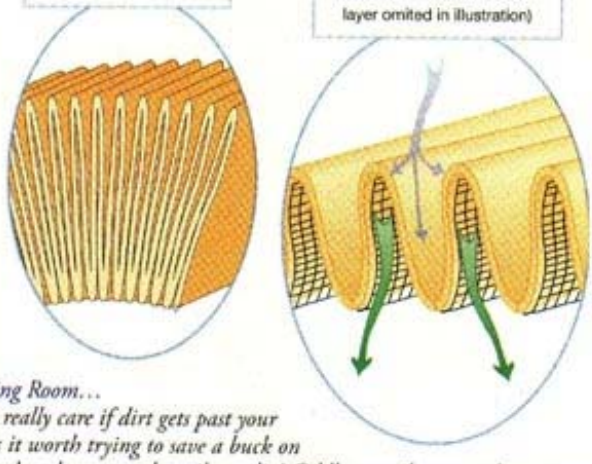
Media Suffix #	Filter Media Description:	Reten.* μ Liq	Reten.* μ Gas	Temp. °F	Style* used in:
1	Woven Cotton	30	≤ 30	200	S , M
2	Rayon Felt	> 10	10	200	S , M
3	Woven Cotton	5	2	200	S , M
5	Polyester Felt	20	10	300	S , M
7	Polyester Felt	5	4	300	S , M
8	Woven Fiberglass	15	10	700	S , M
12	Cotton Terrycloth	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

Typical Cellulosic (paper) Media

Fin Design of Textile Media (Upstream screen layer omited 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.