



Better Air is Our Business®

AmericanAirFilter®

MEGAcel I
with helior™

Solution Features, Advantages, and Benefits

AAF MEGAcel I filter with Helior PTFE media provides the highest efficiency at the lowest resistance in the air filtration industry.



Performance


Product Features

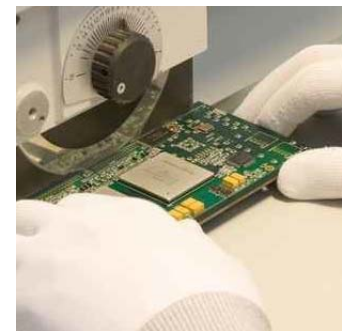
- Lower initial pressure drop - 0.7" w.g.
- Available in 99.99% (IEST-RP-CC001.5 Type C Filter)
- Lower susceptibility to damage during normal operations (room decontamination, spray-down, etc.)

Advantages

- Lower energy consumption through reduction in needed fan motor horsepower (40% lower)
- Meets industry performance requirements
- ULPA filters with PTFE have been placed in service over the last 10 years with in-place failure rates exceedingly lower than micro-fiberglass media filters

Customer Benefits

- Substantial ENERGY SAVINGS 
- Keeps operating cost to a minimum and increases process productivity
- Reduced likelihood of filter failure during in-place testing



Media

Product Features

- Resilient synthetic substrate
- Chemical resistant
- Water resistance
- Negligible off-gassing

Advantages

- Durability and tensile strength is 8X that of standard micro-fiberglass media
- No media degradation from alkaline, acid, and organic substances
- Media integrity maintained

Customer Benefits

- Reduce labor expense through longer life expectancy and reduction in damage during handling
- Cost savings from longer life expectancy and fewer change-outs caused by filter leakage
- Reduced filter damages = cost savings
- Improved yield and reduced likelihood of contamination from the filter

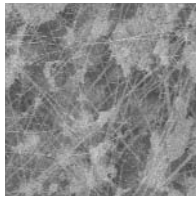


Figure A (10,000x)

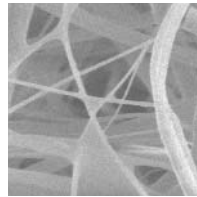


Figure B (10,000x)

Figure A illustrates the finer diameter and more consistent composition of Helior™ PTFE media when compared with micro-fiberglass media in Figure B.

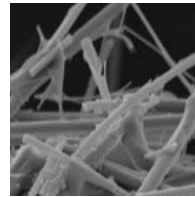


Figure C (5,000x)

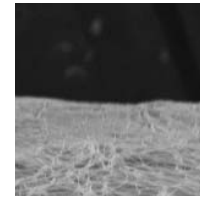


Figure D (5,000x)

Figure C clearly shows the broken glass fibers at the pleat edge, while the fold of Helior™ PTFE media in Figure D is intact.

Construction

Product Features

- Tapered aluminum separators
- Media production, filter assembly, testing, and packaging in an ISO Class 7 environment

Advantages

- Optimizes pleat pack resistance
- Eliminates potential for contamination

Customer Benefits

- Conserves energy/cost reductions
- Guaranteed high performance — AAF is the only HEPA/ULPA manufacturer to fully manufacture filters in a Class ISO 7 cleanroom

