

eXtreme nano fibers applied to the surface of our patented HemiPleat filters raise initial efficiency to a MERV 15 rating.

### What is HemiPleat eXtreme?

NEW HemiPleat eXtreme media offers significant filtration efficiencies over other nano fiber brands due to a proprietary tri-layered technology. This technology allows us to use our standard base materials, adding the two additional layers without compromising the pressure drop of our material combined. This technology also insures a better bond of eXtreme fibers to its base over standard nanofibers on the base substrate.

This technology allows base material to have larger pore sizes than standard cellulose products, thus reducing pressure drop of base material and allowing the eXtreme fibers to provide a superior efficiency layer.

HemiPleat eXtreme media improves filtration efficiencies, is more durable, and can withstand rigorous pulse-cleaning. These advantages extend filter life and lower operation costs, saving you money.

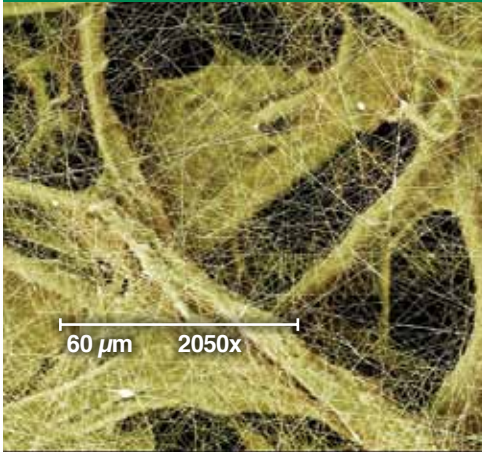
State-of-the-art pleating technology is the key to the HemiPleat's superior performance. Techniques used to manufacture the media packs of this cartridge are unique, patented and have never been applied to a cylindrical industrial dust collection filter before. Synthetic beads hold the pleats of the cartridge open with wide pleat spacing not found in competitor cartridges, which are packed too tightly to maximize media use.

The wider spacing of the HemiPleat design exposes more media to the gas stream and results in lower pressure drop and improved cartridge release characteristics during pulse cleaning.

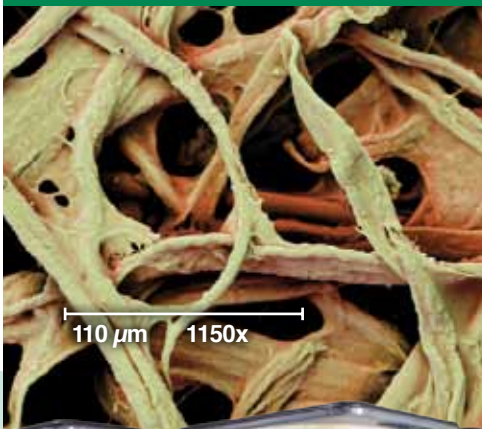
### Key Benefits of HemiPleat eXtreme

- MERV 15 efficiency rating—higher than base paper rating of MERV 10 and competitors' MERV 13 nano web product.
- Delivers long-term low pressure drop on difficult applications like laser and plasma cutting, welding, thermal spray, etc.
- HemiPleat eXtreme coating is thick, durable and can be seen. Competitive Nano coatings are so thin they can't even be seen—is it even there?

**A. Cellulose Polyester Blend with eXtreme coating**



**B. Cellulose Polyester Blend**



### What is the efficiency rating?

The photos to the left show extreme fine fiber layer (image A) applied to the surface of base cellulose fibers (image B) to increase efficiency from a MERV 10 up to a MERV 15, which is higher than most other nano fiber filters on the market at MERV 13.

MERV is an ASHRAE standard efficiency scale going 1 to 16, 16 being the highest. Camfil Farr APC also offers our High Efficiency (HE) media which has a MERV 16 rating for maximum initial efficiency. Tested efficiencies of 99.999% on 0.5 micron and larger particles by weight have been proven.

Mass emissions are below 0.001 gr/dscf on most applications.

### Who does HemiPleat eXtreme help?

The HemiPleat eXtreme is perfect for smoke applications like laser and plasma cutting, welding and thermal spray that have high concentrations of submicron particles. eXtreme dual layer can be applied over our standard PolyTech™ media or our fire retardant (FR) media. We can apply the eXtreme to all of our PolyTech base medias (green, carbon, FR) and on the new light-weight synthetic (light-weight spun bond polyester).

### Why is HemiPleat eXtreme better

- Lower pressure drop through open pleat spacing improves cleaning efficiency, which will reduce energy costs through less compressed air consumption during cleaning in many applications.
- More media is available for filtration, resulting in improved performance and longer life.
- The separation beads, not the media pleats, contact the inner cage, protecting the media from frictional damage.
- Camfil Farr APC guarantees performance in writing—ask about the HemiPleat Guarantee.
- The eXtreme layer acts like a pre-filter to the base media and doesn't allow most dust particles to "depth load" (or imbed in the media). Most of the dust is captured at the surface of the media because the pores on the eXtreme media are so small. This "surface loading" is what increases the filters cleaning ability, which in turn extends filter life.



**GS-XG- HemiPleat eXtreme** (Color: White/Green) – MERV 15 – Base PolyTech Green Media with proprietary tri-layer of backer and nanofibers to yield the market's most superior filtration and cleanability with an efficiency of 99.995% on 0.5 microns and larger by weight.

**GS-XF - HemiPleat eXtreme FR** (Color: White) – MERV 15 – Base PolyTech Fire Retardant Media with proprietary tri-layer of backer and nanofibers to yield the market's most superior filtration and cleanability with an efficiency of 99.995% on 0.5 microns and larger by weight.

**GS-XC- HemiPleat eXtreme Carbon** (Color: White/Black) – MERV 15 – Base PolyTech Carbon Impregnated Media with proprietary tri-layer of backer and nanofibers to yield the market's most superior filtration and cleanability with an efficiency of 99.995% on 0.5 microns and larger by weight.

**GS-XS- HemiPleat eXtreme** (Color: White) – MERV 15 – Light-weight Base Spun Bond Polyester Media with proprietary tri-layer of backer and nanofibers to yield the market's most superior filtration and cleanability with an efficiency of 99.995% on 0.5 microns and larger by weight, Washable.

**HemiPleat eXtreme is available for all cartridge dust collectors**

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