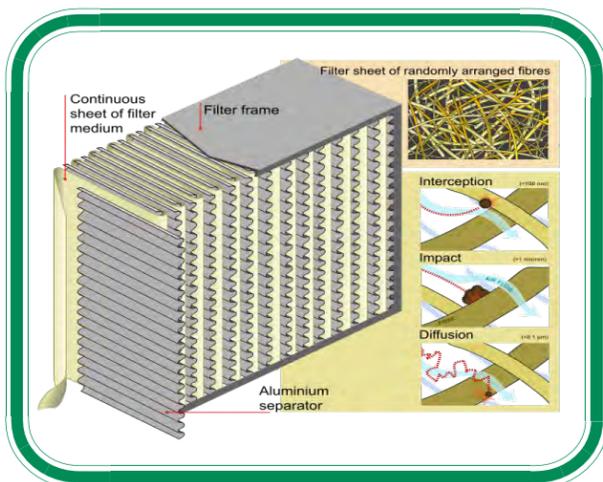


# H.E.P.A. FILTRATION



**High-Efficiency Particulate Air (HEPA)** is a type of air filter. The filter must satisfy certain standards of efficiency such as those set by the United States Department of Energy (DOE). To qualify as HEPA by US government standards, an air filter must remove 99.97% of all particles greater than 0.3 micrometer from the air that passes through. A filter that is qualified as HEPA is also subject to interior classifications.

Most HEPA filters consist of a rigid frame into which a filter pack, constructed by folding a continuous sheet of media into closely spaced pleats, is sealed. Conventional HEPA media can consist of glass, melt blown or electrostatically charged fibers randomly oriented which utilizes some fairly complex mechanical principles to achieve its effectiveness on sub-micron particles. Over the years, filter manufacturers have developed different methods and materials for maintaining the spacing of the pleats all in an effort to optimize media surface area and reduce air flow resistance.



## Applications

- ◆ CLEAN ROOM FILTRATION
- ◆ VACUUM FILTRATION
- ◆ INDUSTRIAL HVAC
- ◆ PAINT EXHAUST SYSTEMS
- ◆ CABIN AIR FILTERS



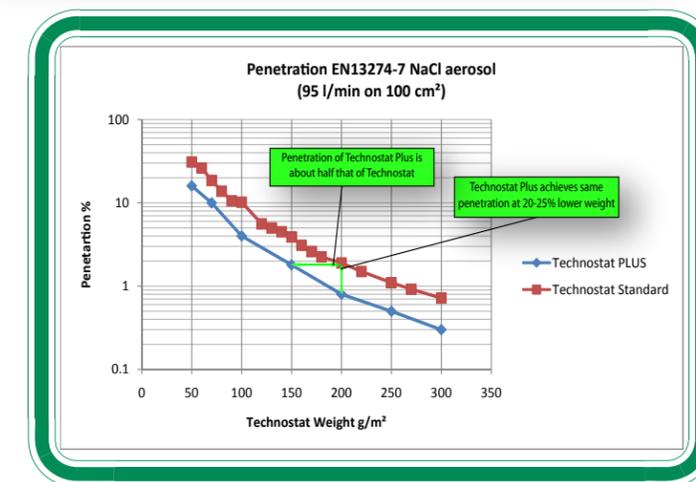
# H.E.P.A. FILTRATION



**SUPERIOR FELT & FILTRATION** Offers a range of these products to meet H.E.P.A. regulations including:

- ◆ Electrostatically Charged Media
- ◆ Melt Blown Media
- ◆ Air-laid Media
- ◆ Spun Bond Media

Our Electrostatic products Technostat & Technostat Plus are surface charged tribo-electret needle-punched felt. The two dissimilar fibers used during the manufacturing process create a charge that enhances filtration capabilities. This embedded charge degrades less over time increasing the shelf life of the products. The media is available in weight ranges of 50-1000 g/m<sup>2</sup>. The lighter weights can be pleated to obtain more surface area, enhancing both efficiency and pressure drop. The heavier weights can achieve HEPA ratings in flat form for panel filters and other applications where there is limited area for filtration.



## Services

- ◆ TESTING
- ◆ PLEATING
- ◆ HEAT WELDING (DIE CUTTING)
- ◆ LAMINATION
- ◆ COMPOSITE BUILDING

