

# H-FLEX

FINE FILTRATION TECHNOLOGY

## VACUUM FILTRATION

The ePTFE membrane laminates have been used in the commercial and residential vacuum cleaner market for many years. The new H-FLEX range of E10 through H14 laminates offer the next generation of performance demanded this market.

Filters made from H-FLEX can be found both in the primary dust container filter or in the final panel or exhaust filter.

While traditional ePTFE laminates offer the standard improved efficiency at low pressure drop, the H-FLEX™ PLUS media offer this and a whole lot more. H-FLEX™ PLUS is newest vacuum media laminate from TTG that offers a washable and reusable filter technology.



*Contact us for more information about H-Flex Fine Filtration Technology.*

TTG Inc.  
7561 South Highway 13  
Higginsville, MO, USA 64037  
Phone: 660-584-2448



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## HVAC FILTRATION

Over the past 18 months significant changes have taken place in the global heating, venting and air conditioning or HVAC industry. New regulations to qualify or rate filter performance, along with continued demands to improve environmental concerns have lead to the emergence of ePTFE laminates being adopted, specifically in the commercial and industrial segments.

H-FLEX™ ePTFE from TTG practices the art of mechanical filtration and offers the high filtration performance against the new ISO16890 standard. Combining the super fine micro-porous structure of ePTFE with its inherent inertness to any neutralization process, this make H-FLEX™ the perfect answer your E-12 to H14 HVAC filter requirements.

H-FLEX™ laminates are designed to be rotary pleated and can be easily mini-pleated for assembly in to any "V" bank or deep frame filter.

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## CABIN AIR FILTRATION

Urban settings and off road rural or construction settings can generate an artificial environment, rich in sub micron particles that can easily find their way in to the cabin of a haulage truck or an off road vehicle.

Traditional filter media with large pore size or electrically charged media can struggle to remove or capture these fine particulates.

H-FLEX™ excels at removing the finest dirt particles at levels greater than 99.95% at 60 nanometers, thus ensuring both the cabin and the driver remain free from exposure to dangerous, fine particulate.



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## FACE RESPIRATORS AND PROTECTIVE FILTRATION

currently glass media

Wet out/DP issues with moisture and saturation

Hydrophobic glass poor air flow and high DP

Military and Haz-Mat applications

ePTFE inherently hydrophobic. Breathability not compromised

Pleatable for enhanced surface area.

Chemical inert to airborne pathogens and other NCB materials



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## POWER GENERATION FILTRATION

Gas turbine power plant installations continue to grow globally as they prove themselves to be the preferred source of power generation over coal and other environmentally or cost challenged technologies.

An emerging trend within this industry is to operate the air filtration system as a high efficiency static filter that prevents fine particulate migrating through traditional filter media and on to the gas turbine blades.

It is proven that the H-FLEX™ technology can reduce the particulate level that bypasses the filter and in turn reduces turbine down time, reduces turbine cleanings and maintains turbine power output and uptime efficiencies.

H-FLEX™ is engineered as a three layer composite media to ensure the highest dust holding capacity combined with the finest particulate filtration at the lowest operating pressure drop.

The super hydrophobic performance inherent to H-FLEX™ easily manages environmental issues associated with fog, rain or salt found in coastal or moisture sensitive locations.

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