



# Anti-Static Filter Media

Donaldson Membranes is a leading worldwide manufacturer of ePTFE membranes. We are a technology-driven company committed to satisfying customer needs through innovative research, development and continuous product improvement with production and sales offices located throughout The United States, Europe and Asia.

Donaldson places great emphasis on high quality manufacturing, customer service and has been accredited ISO/9001:2000, a testament to our high standards.

## The Dangers of Static Build Up

Electrostatic charges within a filter dust cake can develop by friction during the processing and movement of gases and fine dust particles. These static charges can be sufficient to generate sparking giving an ignition source to initiate an explosion of combustible gases and dust particles.

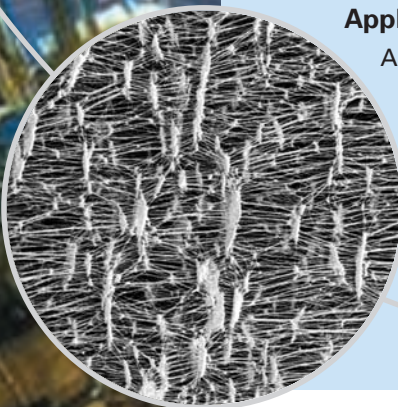
Tetratex® anti-static filter media have electrically conductive substrates designed to safely dissipate these charges. The unique microporous structure of the Tetratex ePTFE membrane comprises millions of randomly connected fibrils giving an effective pore size many times smaller than can be seen by the naked eye. The result: a surface able to capture very fine particulate, while allowing air and static charges to freely permeate the media.

## Product Construction

A proven blend of stainless steel fibers form the basis for the new anti-static Tetratex media. The fabrics are uniformly conductive and achieve a resistivity below  $10^6 \Omega$  to deter the formation of electrostatic charges.

## Applications

Anti-static media is used to dissipate electrostatic charges where explosive hazards exist or where charged dust particles resist release from non-conductive filter media.

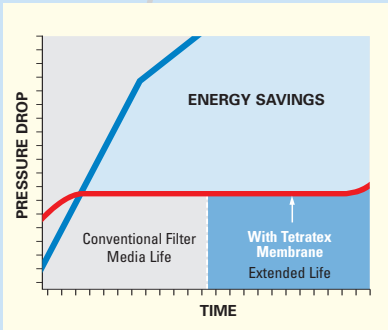


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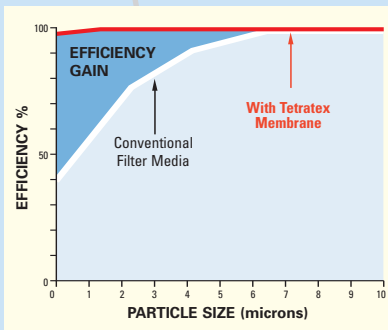
## Features and Benefits

- Near zero emissions meet the required regulatory standards
- Exceptional dust cake release allows for higher airflow and reduced pressure drop
- Increased bag life and less frequent cleaning delivers lower maintenance costs
- Reduced pressure drop resulting in energy savings
- Decreased capital and operational costs lead to increased profitability

## Pressure Drop



## Filtration Efficiency



## Typical Industries

### Mineral

- Cement
- Lime
- Gypsum

### Food/Pharmaceutical

- Spray Dryer
- Milling
- Grinding

### Chemical

- Carbon Black
- TiO<sub>2</sub>
- Pigments

### Metal

- Lead Oxide
- Iron & Steel Furnace

### Energy

- Boilers
- Incinerators



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