



TETRATEX® ePTFE MEMBRANE PLEATABLE FILTER MEDIA

Tetratex® ePTFE can be laminated to a variety of spunbonded substrates for use in pleated filter elements/cartridges. The many applications include filter baghouse retrofits, dust/product collection, air pollution control devices for environmental protection as well as filtration systems used in workplace safety, system protection and product recovery.

There are numerous **features and benefits** associated with Tetratex ePTFE membrane pleatable filter media including:

Energy Savings:

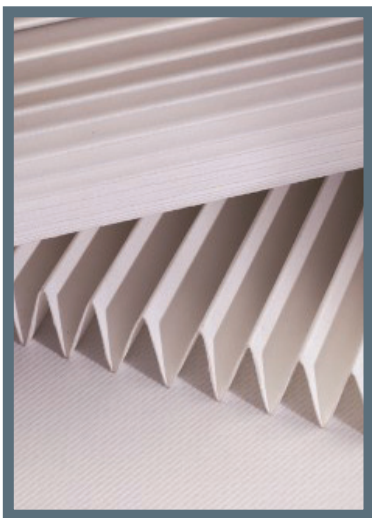
- Improved dust release characteristics enabling **lower compressed air pressure**
- **Lower differential pressure** operating limits ensures less compressed air and energy usage

Low Emissions:

- **Near-zero emissions** to help comply with environmental and workplace health standards and regulations
- **HEPA rated media** from E10 to H13 available for the more stringent applications

Improved Productivity:

- Improved **product reclamation**
- Offers **extended filter element life** leading to fewer filter changes, **lower filter replacement costs**, **reduced maintenance** and **less cleaning time**
- **Overall reduction in production down-time** provides significant cost savings



TETRATEX® IN ACTION

Industry:	Automotive
Dust Types:	Welding fume/particulate
Process:	Robotic welding - fume/particulate extraction
Issue:	Due to the fine particle size of the welding fume extraction, the existing filter cartridges quickly became blinded resulting in a high differential pressure, reduced extraction performance and increased demand on the compressed air cleaning
Solution:	#6277 Tetratex Polyester Pleatable Filter Media
Result:	The replacement cartridges provided improved filtration performance and enabled more effective filter cleandown. A reduced requirement of compressed air cleaning resulted in: <ul style="list-style-type: none"> • Significant energy cost savings • 20% increase in filter life • Reduced production down-time • Improved productivity of 24-7 operation

INDUSTRIES & APPLICATIONS

Chemical	Metal
<ul style="list-style-type: none"> Pigments 	<ul style="list-style-type: none"> Foundries
Aerospace/Composites	Food/Pharmaceutical
<ul style="list-style-type: none"> Finishing <ul style="list-style-type: none"> Trimming/Cutting Sanding CNC Machining 	<ul style="list-style-type: none"> Spray Dryer Product Conveying Mixing Grinding/Milling
Engineering	Energy
<ul style="list-style-type: none"> Metal Cutting <ul style="list-style-type: none"> Plasma Laser Welding Shotblasting/Peening 	<ul style="list-style-type: none"> Boilers
	Minerals
	<ul style="list-style-type: none"> Cement Lime Gypsum
Available Substrates	
Aramid	Polyester Antistatic
Polyester	PPS

SERVICE & SUPPORT

The Donaldson Membranes technical team can provide assistance with installation support, commissioning, and recommending routine maintenance advice.

In order to ensure your application continues to run at optimum levels, regular routine condition testing of filter media is recommended. The laboratory facility of Donaldson Membranes is able to provide detailed analytical feedback, providing a full breakdown of the testing carried out (typically retained permeability, residual tensile strength and supporting microscopic photography). If carried out on a regular basis, this information can be catalogued, trended and used to highlight potential process issues which may adversely affect media performance ahead of filter problems being experienced and/or to provide an invaluable indication of expected filter element life.

Donaldson Membranes can also provide SEM (Scanning Electron Microscope) and particle size analysis capability where more detailed examination is required.

Donaldson Membranes is committed to ensuring excellent service and life-long product performance.

Please contact us if you would like advice on maximizing filter efficiencies. We offer a range of support services including process evaluation, troubleshooting and filter media analysis.

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