

AFT® PulseGuard™ Fiberglass Filter Bags For High-Temperature Pulse-Jet Baghouses

When it comes to air pollution control and ensuring compliance with stringent environmental regulations, the Micronics Engineered Filtration Group is your trusted baghouse solutions partner. We manufacture a wide range of high-quality filter bags for all baghouses, industries, and dust types. We are a leading provider of fiberglass products for high-temperature applications including Cement, Mining, Steel, Waste-to-energy, and more.

Our **AFT® PulseGuard™ Filter Bags** are explicitly designed to capture particulates at a sub-micron level without experiencing the effects of flex fatigue, typical with traditional woven fiberglass products. Flex fatigue, which can shorten filter bag life, is the cyclic bending of the fiber strands within the fiber bundles. Higher than normal differential pressure, coupled with more frequent pulsing and elevated pulse pressure, are the primary causes of flex fatigue.

Benefits of AFT® PulseGuard™:

- Excellent moisture and chemical resistance
- Outstanding performance in high-temperature pulse-jet baghouse applications
- 500° F (260° C) continuous temperature tolerance
- Excellent pulse cycle tolerance
- Extended filter bag life due to its increased tolerance of flex fatigue
- Superior filtration efficiency
- Lower operating costs and total cost of ownership



Micronics' **AFT® PulseGuard™** will meet all environmental regulations including the stringent National Emission Standards for Hazardous Air Pollutants (NESHAP).

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Our **AFT® PulseGuard™ Filter Bags** use woven fiberglass laminated with AFT® ePTFE membrane and have been tested with millions of filter bags over the last decade. The use of AFT® ePTFE provides superior filtration efficiency with a surface structure sized to capture sub-micron particulates. The increased tolerance of our **AFT® PulseGuard™** to flex fatigue makes the filter fabric more durable without losing performance. It's also an ideal solution in applications where the high air/cloth ratio cannot be reduced.

The ePTFE membrane surface can retain a greater amount of particulate than any other filter media style, while the inherent porosity allows a higher gas flow rate without increasing the overall differential pressure (DP) of the system. The low dust penetration into the media, coupled with this ability to better shed dust from the media surface, makes our ePTFE membrane the best choice in some of the most demanding applications.

Fiberglass Characteristics:

- Non-combustible
- Zero moisture absorption; it is not subject to hydrolysis
- Good resistance to acids in general though it is attacked by hydrofluoric, concentrated sulfuric, and phosphoric acid
- Fair resistance to alkalis
- Poor resistance to acid anhydrides and metallic oxides (e.g. fluorides and sulfur oxides)

Note: should not be used in steel mill applications where the process requires fluorspar during melts

Intrinsic Fiber Properties:

- Dry Heat – Excellent
- Moist Heat – Excellent
- Oxidizing agents – Excellent
- Solvents – Very Good
- Acids – Good
- Alkalis – Fair

Fibre Specifications	
Fibre	Multi-density fiberglass composite
Finish	Proprietary PTFE based finish and ePTFE membrane
Weave pattern	Composite double filling face/twill
Yarn count	NA
Average air permeability	3-11 (dmt/ft²@0.5" wg) ASTM D737 14 - 53 (l/min/dm²@20mm wg)
Continuous service temperature	500 (°F) / 260 (°C)
Minimum Mullen burst strength	900(psi) 6205 (kilopascals)
Pulse cycle tolerance	2 to 3 times higher than regular fiberglass



Contact the Micronics Engineered Filtration Group to learn more about our full range of Baghouse Solutions including our Baghouse Maintenance and Repair Services, In-House Laboratory Testing and Training courses for your baghouse personnel. We've got you covered to meet the toughest environmental challenges.