



Spun Bond Filter Media (with PTFE Membrane)

In an effort to reduce downtime and maintenance costs the Dense Flow Compact Bin Vent features highly efficient filter cartridges made from Spun Bond Polyester and coated with a PTFE membrane. Spun Bond Polyester is a heavy duty 100% synthetic filter media with high strength, and efficiency. PTFE (Polytetrafluoroethylene) is essentially a Teflon coating on the Spun Bond filter media. The PTFE membrane enhances dust release for superior cartridge cleaning. Spun Bond Cartridges with PTFE score the highest efficiency or MERV rating of 16. MERV is a measure of filter efficiency (1-16) over a range of different particle sizes. Testing on the Dense Flow Filter Cartridges shows a 99.997% efficiency rating at a 0.5 Micron particle size. The cartridges also feature a wide pleat design that allows them to be more effectively cleaned, and translates into longer cartridge lifespans. Many competitors will narrow the spacing between pleats in an effort to “pack” more cloth area into a single cartridge. The thought is that the more cloth area you can fit or “pack” onto a cartridge, the higher the flow rate the cartridge will be able to handle. Initially this would be true, but after a short period of use, a cartridge with narrow pleat spacing will be cleaned less effectively and greatly reduce the true or working cloth area of the cartridge.

Applications

Particle Removal Efficiency	Moisture Resistance	Water Breakthrough Resistance	Pulse Capable
Excellent	Yes	Yes	Yes

Performance

Performance Category	Filter Class + MERV (Minimum Efficiency)	Permeability (Air Flow)	Mullen Strength (Dry)
Value	16	5.5CFM	Min 225 PSI
Details	MERV is a measure of filter efficiency over a range of particle sizes. Higher MERV means greater efficiency. MERV ratings are from 1-16.	Permeability is a measure of airflow at a standard pressure. Higher permeability can provide lower energy costs.	Mullen is a measure of the filter media burst strength integrity under pressure. Higher Mullen indicates stronger media and potentially longer media life.

J.D.B. Dense Flow, Inc. Technical Specification

Spun Bond Polyester Filter Cartridges

with PTFE Membrane

TEST FLOW RATE	500 CFM
INITIAL RESISTANCE	.73" WG
INITIAL ATMOSPHERIC DUST SPOT EFFICIENCY	98.7%
AVERAGE ATMOSPHERIC DUST SPOT EFFICIENCY	99.94%
AVERAGE DUST WEIGHT ARRESTANCE	100%
INITIAL DUST SPOT	99.7%
DUST SPOT @ 1" WG	99.9%
DUST SPOT @ 2" WG	99.99%
DUST SPOT @ 3" WG	99.999%

PARTICLE EFFICIENCY BY WEIGHT

<u>PARTICLE SIZE</u>	<u>EFFICIENCY</u>
0.5 MICRON	99.9%
1.0 MICRON	100%
2.0 MICRON	100%
5.0 MICRON	100%
10.0 MICRON	100%

NOTE: Specification and dimensions subject to change.