

TEMPEST

Fighting for performance

BUILT TOUGH FOR THE INDUSTRIAL MARKET

INDUSTRIAL VENTILATION PRODUCTS DUST CONTAINMENT BAGS



Tempest Technology offers some of the very best in Industrial Products. Our Dust Containment bag is for clients looking to do serious dust containment jobs.

BUILT TOUGH FOR:

- Concrete
- Demolition
- Construction
- Renovation
- Flooring
- Climate Control
- Oil & Gas

Dust Collection Bag	Part No.
24" x 10'	725-130
24" x 16'	725-131

Style:	565
Construction:	Self-Supported
Composition:	100% Polyester
Finish:	Plain
Weight:	15.00 - 17.00 oz./yd2
Thickness:	0.0650" - 0.0850"
Air Permeability:	20 - 40 CFM @ 1/2in. W.G.
Minimum Breaking Strength:	Warp: 220lbs. / Filling: 300lbs
Minimum Mullen Bursting Strength:	500 lbs./in ²
Dimensional Stability	3% maximum lineal shrinkage after 24 hours unrestrained exposure to dry heat @ 350°F
Fiber Manufacturer's Recommended Maximum Continuous Operating Temperature:	275°F

Official Verification Test Results	ASTM D6830-02*
Mean Outlet Particle Concentration <i>PM 2.5 (gr/dscf)</i>	0.0001146
Mean Outlet Particle Concentration <i>Total mass (gr/dscf)</i>	0.0001153
Initial Residual Pressure Drop (<i>in. w.g.</i>)	1.48
Change in Residual Pressure Drop (<i>in. w.g.</i>)	0.42
Average Residual Pressure Drop (<i>in. w.g.</i>)	1.74
Mass Gain of Filter Sample (<i>g</i>)	1.43
Average Filtration Cycle Time (<i>s</i>)	48
Number of Pulses	448
Residual Pressure Drop	
At Start of: Conditioning Period (<i>in. w.g.</i>)	0.05
At Start of: Recovery Period (<i>in. w.g.</i>)	1.39
At Start of: Performance Test Period (<i>in.w.g.</i>)	1.48
Removal Efficiency (%)	
Dust Concentration (<i>gr/dscf</i>)	8.17%
PM 2.5	99.9981865885%
Total Mass	99.9985893048%



VERIFICATION TESTING DEFINITIONS

Run ID	934-1-1
Fabric Destination	PE-16-US
Manufacturer	Southern Felt
Dust Feed	Pural NF (Aluminum Oxide) minimum 40% of the dust concentration less than 2.5 micron

Verification of Test Results

ASTM D6830-02

Mean Outlet Particle Concentration PM 2.5 micron dust.	Outlet emissions in grains/dry standard cubic feet for 2.4 micron dust
Mean Outlet Particle Concentration Total mass (<i>gr/dscf</i>)	Outlet emissions in grains/dry standard cubic feet for all size dust particles.
Initial Residual Pressure Drop (<i>in. w.g.</i>)	Differential pressure at the start of the test period after the first pulse.
Change in Residual Pressure Drop (<i>in. w.g.</i>)	The difference in differential pressure at the start and end of the test period.
Average Residual Pressure Drop (<i>in. w.g.</i>)	Average differential pressure for the 6 hour test period. Average is based on 60 minute blocks.
Mass Gain of Filter Sample (<i>g</i>)	Difference in weight gain in grams from the start and the end of the test period.
Average Filtration Cycle Time (<i>s</i>)	# seconds between pulses to maintain 4" differential pressure.
Number of Pulses	Total # of pulses for the 6 hour test period set to clean at 4" differential pressure.

Residual Pressure Drop

Differential Pressure Recorded 3 Seconds After The Pulse Cleaning Cycle.

At Start of: Conditioning Period (<i>in. w.g.</i>)	10,000 rapid pulses at 3 second intervals to simulate long term operation.
At Start of: Recovery Period (<i>in. w.g.</i>)	30 normal pulse cycles set to clean at 4" differential pressure.
At Start of: Performance Test Period (<i>in. w.g.</i>)	6 hour test period with the pulse cycle set to clean 4" differential pressure.

Removal Efficiency (%)

Dust Concentration (<i>gr/dscf</i>)	Inlet dust loading in grains/dry standard cubic feet.
PM 2.5	% of filtration efficiency on 2.5 micron dust.
Total Mass	% of filtration efficiency for all size dust particles
	<i>Dust Particle size distribution for test was 77.35% less than 2.5 micron.</i>

* ASTM D6830-02(2016), Standard Test Method for Characterizing the Pressure Drop and Filtration Performance of Cleanable Filter Media, ASTM International, West Conshohocken, PA, 2016, www.astm.org