

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

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

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|---|--|
| 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

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|--|---|
| 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.

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| 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