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Date: 30-Apr-19 TEST NO. 19-199-2

Test Report ANSI/ASHRAE Standard 52.2-2017

Filter Description

Manufacturer	Fibrix
Filter Model	125UWMNOTG100-9
Part Number	N/A
Generic Filter Type	Pad
Nominal Dimensions (H x W x D)	24" x 24" x 1.5"
Pocket / Pleat Quantity	N/A
Media Type	Synthetic
Est. Gross Media Area	4.0 Ft ²
Adhesive Type	Dry Tack



Test Conditions


Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	70
Barometric Pressure (In. Hg.)	29.59	Relative Humidity (%)	45

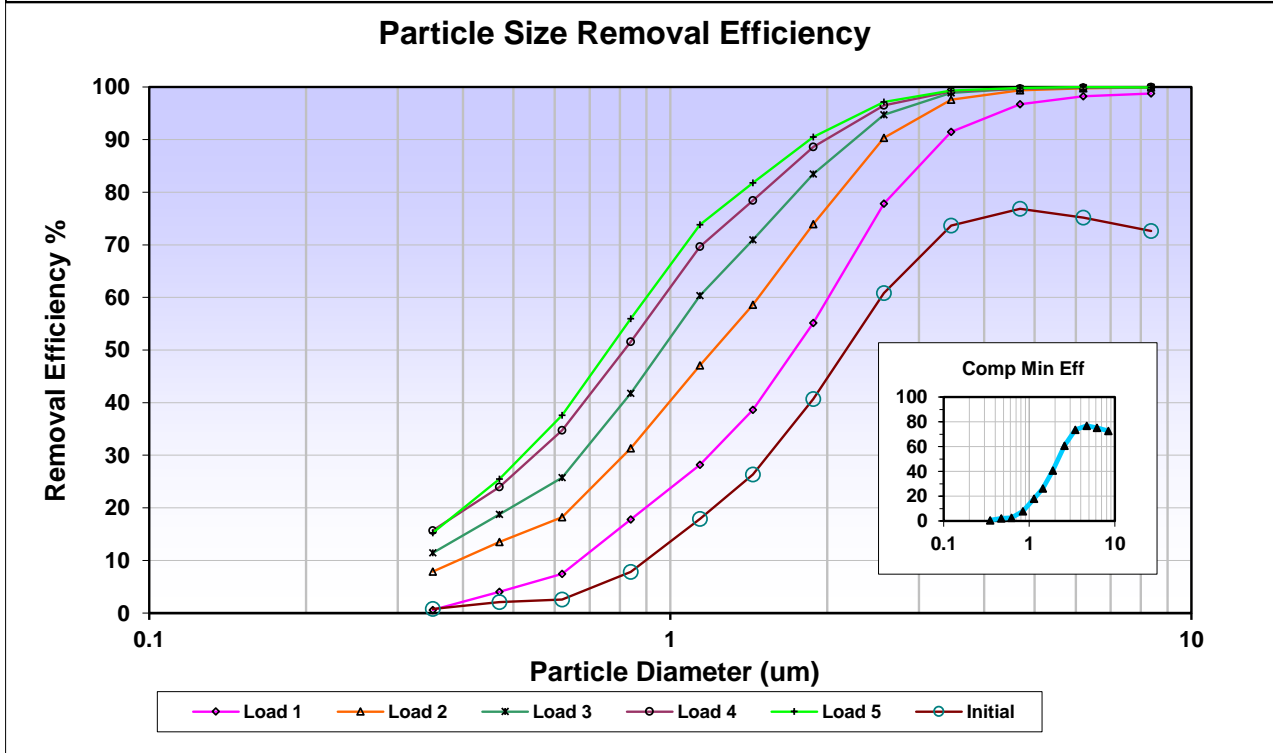
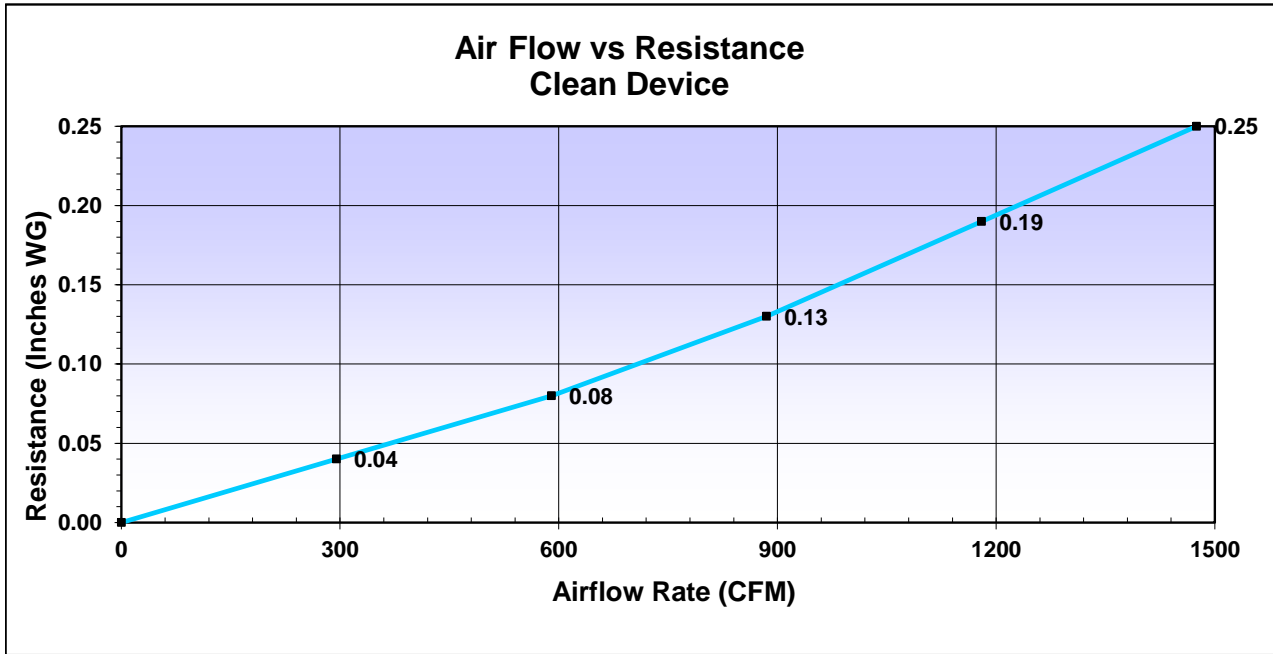
Test Results

Airflow Rate (CFM)	1180
Nominal Face Velocity (fpm)	295
Initial Resistance (in WG)	0.19
Final Resistance (in WG)	1.00
Dust Fed (gms) to Final Resistance	258
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	3
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	36
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	75
Minimum Efficiency Reporting Value (MERV)	MERV 9 @ 1180 CFM

Remarks

Comments Tested For: Fibrix
 Final Pressure Drop ("w.c.) 1.00" w.c.
 Dust Holding Capacity (gms) 224.8
 Average Arrestance (%) 87.1

Test Performed by: JPS **Approved By:**  **Test Completed:** 30-Apr-19



Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
295	0.04
590	0.08
885	0.13
1180	0.19
1475	0.25

Data - Particle Removal Efficiency

Particle Size Range (µm)	Geometric Mean Diam (µm)	Particle Removal Efficiency (%)							
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
0.30 - 0.40	0.35	0.6	0.8	0.6	7.9	11.4	15.7	15.2	
0.40 - 0.55	0.47	2.1	2.1	4.0	13.5	18.8	23.9	25.5	
0.55 - 0.70	0.62	2.6	2.6	7.4	18.2	25.8	34.7	37.6	
0.70 - 1.00	0.84	7.8	7.8	17.8	31.3	41.8	51.6	56.0	
1.00 - 1.30	1.14	17.9	17.9	28.2	47.1	60.3	69.7	73.8	
1.30 - 1.60	1.44	26.3	26.3	38.6	58.6	71.0	78.4	81.8	
1.60 - 2.20	1.88	40.7	40.7	55.1	73.9	83.5	88.6	90.5	
2.20 - 3.00	2.57	60.8	60.8	77.8	90.3	94.7	96.5	97.2	
3.00 - 4.00	3.46	73.7	73.7	91.5	97.6	98.9	99.2	99.3	
4.00 - 5.50	4.69	76.8	76.8	96.7	99.4	99.7	99.7	99.8	
5.50 - 7.00	6.20	75.2	75.2	98.2	99.7	99.9	99.9	100.0	
7.00 - 10.00	8.37	72.6	72.6	98.8	99.9	100.0	100.0	99.9	
Resistance after Dust Load (in w.c.) ----->				0.23	0.39	0.60	0.80	1.00	
Dust Load (gms) ----->				11	59	129	209	258	

Test Data for Release Rate (%)						
Size Range No.	Geometric Mean of Particle Size Range, µm	Release Rate After Loading Stage 1	Release Rate After Loading Stage 2	Release Rate After Loading Stage 3	Release Rate After Loading Stage 4	Release Rate After Loading Stage 5
1	0.35	0.041	0.050	0.052	0.044	0.057
2	0.47	0.040	0.045	0.048	0.042	0.059
3	0.62	0.035	0.042	0.043	0.029	0.044
4	0.84	0.034	0.034	0.041	0.027	0.051
5	1.14	0.035	0.037	0.035	0.038	0.057
6	1.44	0.022	0.027	0.022	0.017	0.039
7	1.88	0.015	0.010	0.015	0.014	0.042
8	2.57	0.013	0.005	0.003	0.019	0.036
9	3.46	0.006	0.004	0.009	0.018	0.108
10	4.69	0.000	0.006	0.004	0.045	0.183
11	6.2	0.020	0.000	0.016	0.088	0.321
12	8.37	0.000	0.000	0.072	0.076	0.201