

EN-1822-3 Test Report - Flat Sheet Media

Efficiency Test of Particles Sized 0.02 - 0.5 μm

Filter Description

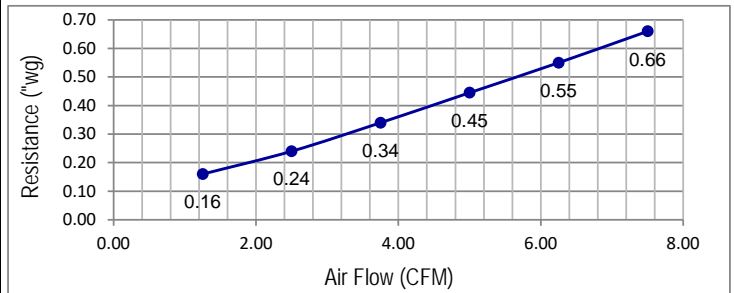
Manufacturer	JP Air Tech	
Filter Model	JX131-B-PTFE MEMBRANE	
Part Number		
Test Area	5.4 ft ²	0.497 m ²
Media Type	100% BICO Polyester + PTFE Membrane	
Media Color	White	
Sample Procurement	JP Air Tech	

Air Flow Versus Resistance

Velocity (%)	FPM / cm/s	"WG	Pa
0	1.25 / 0.64	0.16	40
25	2.50 / 1.27	0.24	60
50	3.75 / 1.91	0.34	85
75	5.00 / 2.54	0.45	111
100	6.25 / 3.18	0.55	138
125	7.50 / 3.81	0.66	165

Test Conditions

Test Air Flow Rate (CFM / m ³ /hr)	5 FPM	
Challenge Aerosol	DEHS	
Counter Information	TSI 3080 Classifier / TSI 3772 CPC Counter	
Test Temperature (°F / °C)	71.7 Deg F	22.1 Deg C
Relative Humidity (%)	41.5	
Barometric Pressure (" Hg / Pa)	29.63 in. Hg	100.34 kPa

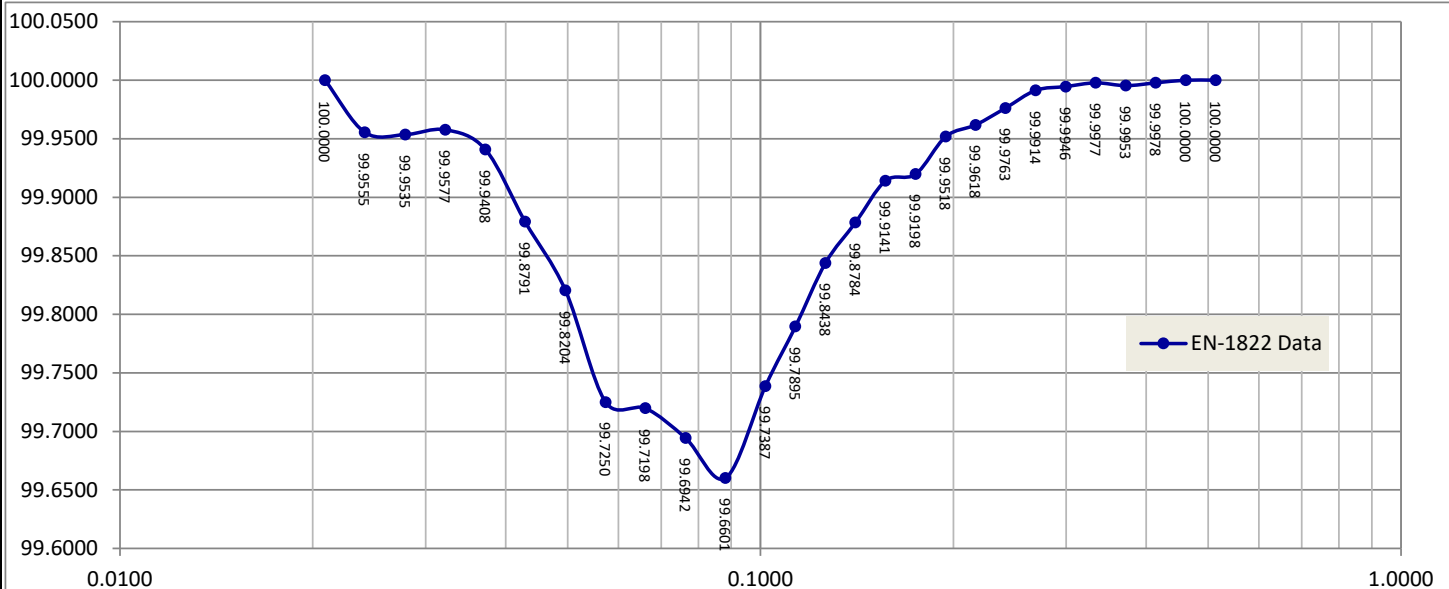


Test Results

EN-1822 Results

Airflow Rate
 Nominal Face Velocity
 Initial Resistance
 MPPS Determination
 Efficiency at MPPS
 Projected Rating (Min. Integral for H13 \geq 99.95%)

5.00 CFM / 2.5 m ³ /hr
5.0 FPM
0.45 inch WG / 111.3 Pa
0.0882 μm
99.6601 %
E12



Requestor Information

Test Requestor Mads Bojda
 Company Name JP Air Tech
 Company Address Skifervej, 4900 Sakskobing, Denmark

Phone: 0045 60185018
 Email: mb@jpairtech.com
 Date Requested 5/9/2017

Test Operator Information

 Test Performed by: Glen D Toloczko CAFS

 Completion Date 5/22/2017

Data - Initial Resistance

Airflow (FPM)	Resistance (in WG)	Airflow (cm/s)	Resistance (Pa)
1.25	0.16	0.6	40
2.50	0.24	1.3	60
3.75	0.34	1.9	85
5.00	0.45	2.5	111.25
6.25	0.55	3.2	137.5
7.50	0.66	3.8	165

Data - Particle Removal Efficiency

Particle Size Range (nm)	MPPS	Particle Removal Efficiency (%)	
		(μm)	
20.90		0.0209	100.0000
24.10		0.0241	99.9555
27.90		0.0279	99.9535
32.20		0.0322	99.9577
37.20		0.0372	99.9408
42.90		0.0429	99.8791
49.60		0.0496	99.8204
57.30		0.0573	99.7250
66.10		0.0661	99.7198
76.40		0.0764	99.6942
88.20	MPPS	0.0882	99.6601
101.80		0.1018	99.7387
113.40		0.1134	99.7895
126.30		0.1263	99.8438
140.70		0.1407	99.8784
156.80		0.1568	99.9141
174.70		0.1747	99.9198
194.60		0.1946	99.9518
216.70		0.2167	99.9618
241.40		0.2414	99.9763
269.00		0.2690	99.9914
299.60		0.2996	99.9946
333.80		0.3338	99.9977
371.80		0.3718	99.9953
414.20		0.4142	99.9978
461.40		0.4614	100.0000
514.00		0.5140	100.0000