



2820 S. English Station Road - Louisville, KY 40299

TEST NO. 17-629-7

EN-1822-3 Test Report - Flat Sheet Media

Efficiency Test of Particles Sized 0.02 - 0.5 μm

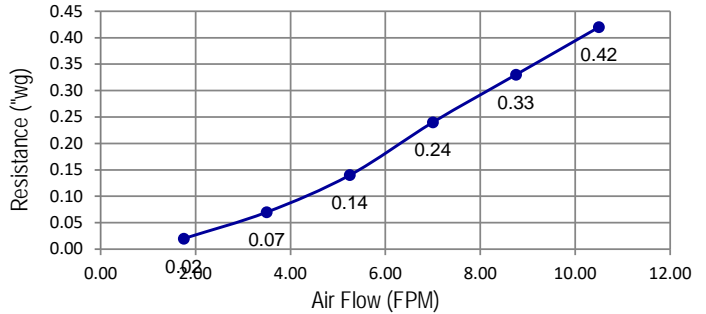
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Filter Description

Manufacturer	JP AirTech	
Filter Model	Flat Sheet Media	
Part Number	JX255-B PTFE MEMBRANE	
Test Area	1.00 ft ²	0.093 m ²
Media Type	100% BICO Polyester+Thermal Bonded PTFE	
Media Color	White	
Sample Procurement	JP AirTech	

Air Flow Versus Resistance

Velocity (%)	FPM / cm/s	"WG	Pa
0	1.75 / 0.89	0.02	5
25	3.50 / 1.78	0.07	18
50	5.25 / 2.67	0.14	35
75	7.00 / 3.56	0.24	60
100	8.75 / 4.45	0.33	83
125	10.50 / 5.33	0.42	105



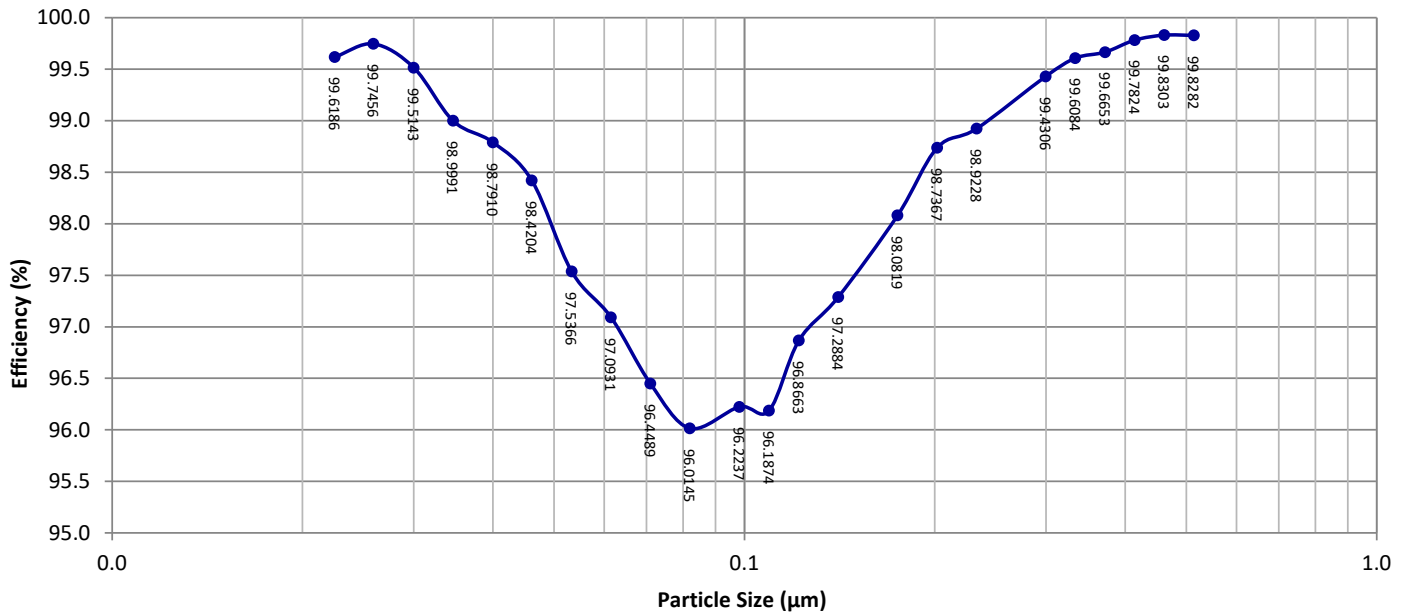
Test Conditions

Test Air Flow Rate (FPM / cm/s)	7 FPM	3.56 cm/s
Challenge Aerosol	DEHS	
Counter Information	TSI 3080 Classifier / TSI 3772 CPC Counter	
Test Temperature (°F / °C)	74.2 Deg F	23.4 Deg C
Relative Humidity (%)	26.7	
Barometric Pressure (\" Hg / Pa)	29.53 in. Hg	100.00 kPa

Test Results

EN-1822 Results

Airflow Rate	7.0 CFM
Nominal Face Velocity	7.0 FPM
Initial Resistance	0.24 inch WG / 60.0 Pa
MPPS Determination	0.0615 μm
Efficiency at MPPS	97.0931 %
Projected Rating (Min. Integral for E12 \geq 99.5%)	E11



Requestor Information	Test Requestor <u>Jogen Polsen</u>	Phone: <u>+45 5495 0025</u>
	Company Name <u>JP AirTech</u>	Email: <u>jp@jpairtech.com</u>
Test Operator Information	Company Address <u>Skifervej 2, 4990 Saksbøing</u>	Date Requested <u>10/17/2017</u>
	Test Performed by: <u>Glen D Toloczko CAFS</u>	Completion Date <u>10/31/2017</u>

Data - Initial Resistance

Airflow (FPM)	Resistance (in WG)	Airflow (cm/s)	Resistance (Pa)
1.75	0.02	0.9	5
3.50	0.07	1.8	17.5
5.25	0.14	2.7	35
7.00	0.24	3.6	60
8.75	0.33	4.4	82.5
10.50	0.42	5.3	105

Data - Particle Removal Efficiency

Particle Size Range (nm)	MPPS	Particle Removal Efficiency (%)	
		(μm)	
22.50		0.0225	99.6186
25.90		0.0259	99.7456
30.00		0.0300	99.5143
34.60		0.0346	98.9991
40.00		0.0400	98.7910
46.10		0.0461	98.4204
53.30		0.0533	97.5366
61.50	MPPS	0.0615	97.0931
71.00		0.0710	96.4489
82.00		0.0820	96.0145
98.20		0.0982	96.2237
109.40		0.1094	96.1874
121.90		0.1219	96.8663
140.70		0.1407	97.2884
174.70		0.1747	98.0819
201.70		0.2017	98.7367
232.90		0.2329	98.9228
299.60		0.2996	99.4306
333.80		0.3338	99.6084
371.80		0.3718	99.6653
414.20		0.4142	99.7824
461.40		0.4614	99.8303
514.00		0.5140	99.8282