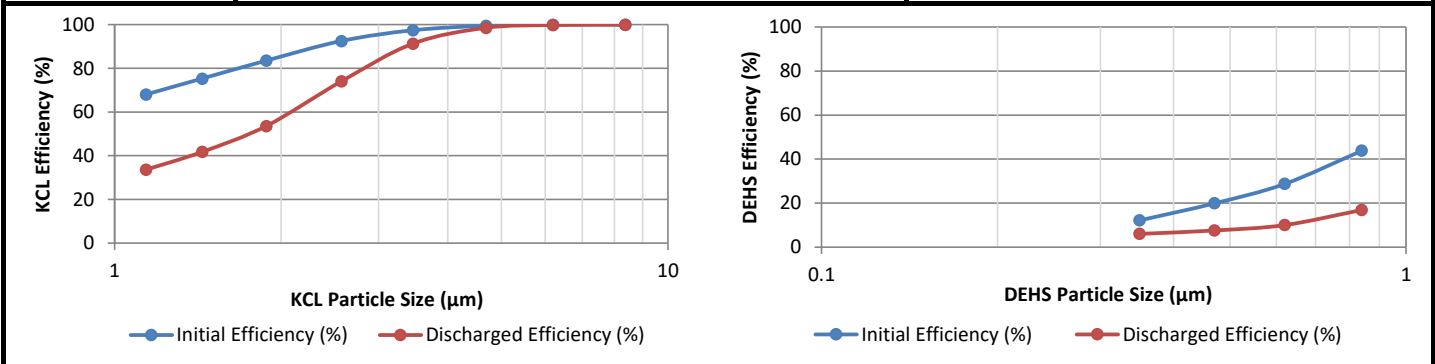


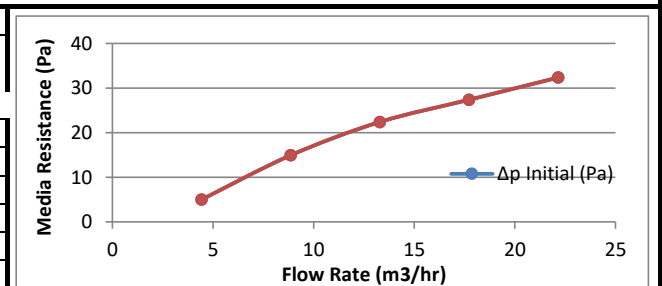
ISO 16890-2 /-4:2016 Air Filter Test Result Summary

Counter Information	Manufacturer <u>TSI, Inc.</u>	Test Conditions	Test Flow Rate <u>10.4 CFM / 17.72 m3/h</u>
	Model No. <u>3330</u>		Test Aerosol <u>Aerosolized KCl & DEHS</u>
	Serial No. <u>3330174305</u>	Temperature <u>69.0 Deg F / 20.6 Deg C</u>	Relative Humidity <u>36.6 %</u>
	IPA Discharge <input checked="" type="checkbox"/> Vapor Treated	Barometer <u>29.31 in Hg / 99.26 kPa</u>	
	Method <input type="checkbox"/> IPA Dip Method		

Device Tested	Manufacturer <u>JP Air Tech</u>
	Model <u>JX260B</u>
	Dimensions <u>16" x 16"</u>
	Type of Media <u>Flat Sheet Media</u>
	Media Area <u>1.0 ft2 / 0.09 m2 Tested Area</u>
	Construction <u>N/A</u>
	Filter/Media Electrostatic Charge <u>N/A</u>
	Media Color <u>White</u>
	Media Adhesive <u>N/A</u>
	Sample Procurement <u>JP Air Tech</u>



KCL					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
1.0-1.3	1.14	68	34	165030	102781
1.3-1.6	1.44	75	42	104360	62071
1.6-2.0	1.88	84	54	244881	156840
2.0-3.0	2.57	93	74	133279	105719
3.0-4.0	3.46	97	91	59154	56286
4.0-5.5	4.69	99	99	28477	32019
5.5-7.0	6.20	100	100	7495	8292
7.0-10.0	8.37	100	100	5421	4979



	m ³ /h	Δp Initial (Pa)	Δp Post IPA (Pa)
25	4.43	5.0	5.0
50	8.86	14.9	14.9
75	13.29	22.4	22.4
100	17.72	27.4	27.4
125	22.15	32.3	32.3

DEHS					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
0.3-0.4	0.35	12	6	526719	460564
0.4-0.55	0.47	20	8	496616	430912
0.55-0.7	0.62	29	10	315048	272067
0.7-1.0	0.84	44	17	466532	393404

Reporting Data			
	ePM ₁	ePM _{2.5}	ePM ₁₀
Minimum	9%	23%	69%
Average	17%	33%	74%
Reported	N/A*	N/A*	70%

Requestor Information	Test Requestor <u>Cagri Tekman</u>	Phone: <u>+90 532 686 9259</u>
	Company Name <u>JP Air Tech</u>	Email: <u>ct@jpairtech.com</u>
	Company Address <u>Skifervej 2, 4990 Sakskobing, Denmark</u>	Requested Date: _____

ISO 16890-1										
Data Entry Table							Reporting Data			
DEHS								ePM ₁	ePM _{2.5}	ePM ₁₀
d_i	d_{i+1}	d_m	$\Delta \ln d_i$	E_i	$E_{D,i}$	$E_{A,i}$	Minimum	9%	23%	--
0.30	0.40	0.35	0.29	12.2%	6.0%	9.1%	Average	17%	33%	74%
0.40	0.55	0.47	0.32	19.9%	7.6%	13.7%	Reported	N/A*	N/A*	70%
0.55	0.70	0.62	0.24	28.7%	10.0%	19.4%	* Any Reporting value of N/A shows the minimum efficiency is below 50% for that ePM value			
0.70	1.00	0.84	0.36	43.8%	16.9%	30.3%				
KCL										
1.00	1.30	1.14	0.26	68.0%	33.6%	50.8%				
1.30	1.60	1.44	0.21	75.3%	41.8%	58.5%				
1.60	2.20	1.88	0.32	83.5%	53.6%	68.6%				
2.20	3.00	2.57	0.31	92.5%	74.1%	83.3%				
3.00	4.00	3.46	0.29	97.4%	91.3%	94.3%				
4.00	5.50	4.69	0.32	99.5%	98.5%	99.0%				
5.50	7.00	6.20	0.24	99.9%	99.8%	99.9%				
7.00	10.00	8.37	0.36	100.0%	100.0%	100.0%				
ePM ₁ Calculations										
d_i	d_{i+1}	d_m	$\Delta \ln d_i$	$E_{A,i}$	$q_{3\sigma}$	$q_{3\sigma} * \Delta \ln d_i$	$E_{D,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{A,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{\min}(PM_1)$	$E(PM_1)$
0.30	0.40	0.35	0.29	9.1%	22.627%	0.065095	0.003932	0.005922	9%	17%
0.40	0.55	0.47	0.32	13.7%	19.891%	0.063343	0.004796	0.008697		
0.55	0.70	0.62	0.24	19.4%	15.837%	0.038193	0.003833	0.007402		
0.70	1.00	0.84	0.36	30.3%	11.522%	0.041097	0.006933	0.012464		
Sums:					0.207728	0.019493	0.034486			
ePM _{2.5} Calculations										
d_i	d_{i+1}	d_m	$\Delta \ln d_i$	$E_{A,i}$	$q_{3\sigma}$	$q_{3\sigma} * \Delta \ln d_i$	$E_{D,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{A,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{\min}(PM_{2.5})$	$E(PM_{2.5})$
0.30	0.40	0.35	0.29	9.1%	22.627%	0.065095	0.003932	0.005922	23%	33%
0.40	0.55	0.47	0.32	13.7%	19.891%	0.063343	0.004796	0.008697		
0.55	0.70	0.62	0.24	19.4%	15.837%	0.038193	0.003833	0.007402		
0.70	1.00	0.84	0.36	30.3%	11.522%	0.041097	0.006933	0.012464		
1.00	1.30	1.14	0.26	50.8%	8.503%	0.022309	0.007506	0.011343		
1.30	1.60	1.44	0.21	58.5%	7.618%	0.015817	0.006605	0.009259		
1.60	2.20	1.88	0.32	68.6%	8.022%	0.025546	0.013691	0.017515		
2.20	3.00	2.57	0.31	83.3%	9.984%	0.030966	0.022933	0.025790		
Sums:					0.302366	0.070227	0.098392			
ePM ₁₀ Calculations										
d_i	d_{i+1}	d_m	$\Delta \ln d_i$	$E_{A,i}$	$q_{3\sigma}$	$q_{3\sigma} * \Delta \ln d_i$	$E_{D,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{A,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{\min}(PM_{10})$	$E(PM_{10})$
0.30	0.40	0.35	0.29	9.1%	9.412%	0.027077	0.001635	0.002463	69%	74%
0.40	0.55	0.47	0.32	13.7%	8.395%	0.026733	0.002024	0.003671		
0.55	0.70	0.62	0.24	19.4%	7.432%	0.017924	0.001799	0.003474		
0.70	1.00	0.84	0.36	30.3%	7.014%	0.025016	0.004220	0.007587		
1.00	1.30	1.14	0.26	50.8%	7.628%	0.020013	0.006733	0.010176		
1.30	1.60	1.44	0.21	58.5%	8.833%	0.018340	0.007658	0.010735		
1.60	2.20	1.88	0.32	68.6%	10.804%	0.034406	0.018440	0.023590		
2.20	3.00	2.57	0.31	83.3%	13.726%	0.042573	0.031528	0.035457		
3.00	4.00	3.46	0.29	94.3%	16.708%	0.048067	0.043878	0.045349		
4.00	5.50	4.69	0.32	99.0%	19.542%	0.062233	0.061322	0.061611		
5.50	7.00	6.20	0.24	99.9%	21.671%	0.052261	0.052163	0.052192		
7.00	10.00	8.37	0.36	100.0%	23.143%	0.082545	0.082528	0.082529		
Sums:					0.457189	0.313930	0.338832			

