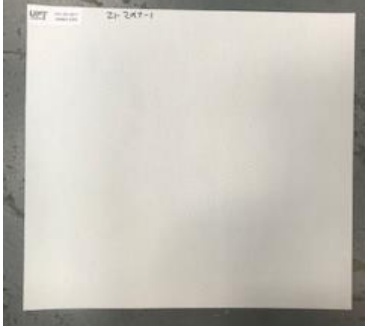
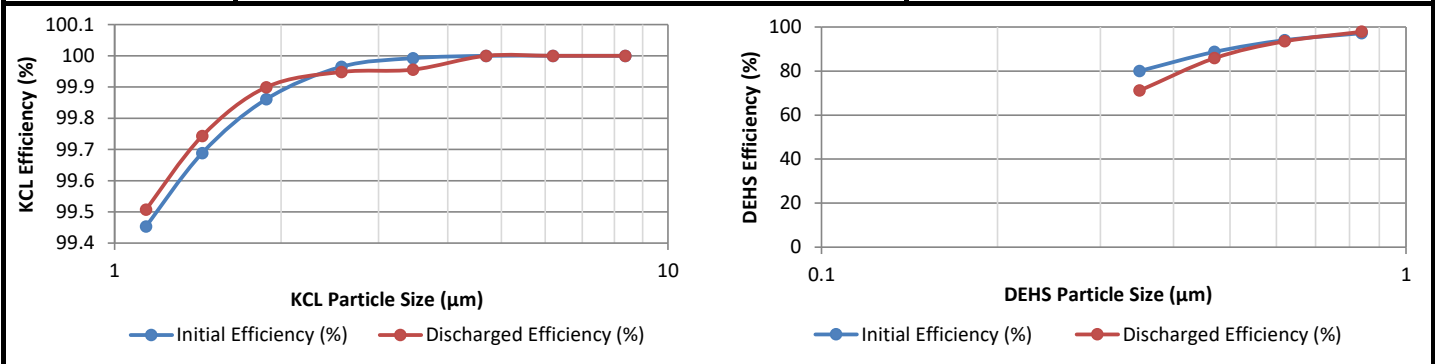


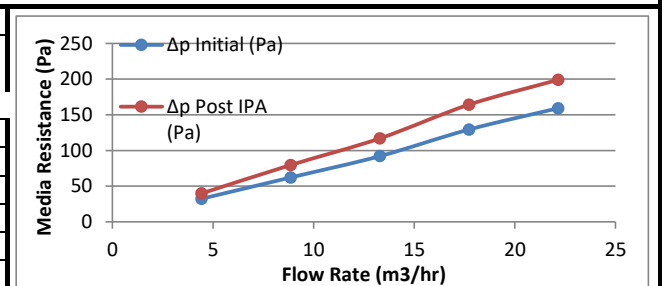
ISO 16890-2 /-4:2016 Air Filter Test Result Summary

Counter Information	Manufacturer <u>TSI, Inc.</u>	Test Conditions	Test Flow Rate <u>10.5 CFM / 17.84 m3/h</u>
	Model No. <u>3330</u>		Test Aerosol <u>Aerosolized KCl & DEHS</u>
Serial No. <u>3330174305</u>	Temperature <u>82.0 Deg F / 27.8 Deg C</u>		
IPA Discharge Method <input checked="" type="checkbox"/> Vapor Treated <input type="checkbox"/> IPA Dip Method	Relative Humidity <u>45.0 %</u>		
			Barometer <u>29.66 in Hg / 100.44 kPa</u>

Device Tested	Manufacturer <u>UFT Can Inc.</u>
	Model <u>STC-23-10-F</u>
	Dimensions <u>16" x 16"</u>
	Type of Media <u>Flat Sheet Media</u>
	Media Area <u>1.0 ft^2</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>UFT Can Inc.</u>

KCL					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
1.0-1.3	1.14	99	100	126911	30295
1.3-1.6	1.44	100	100	75235	18095
1.6-2.0	1.88	100	100	185306	39997
2.0-3.0	2.57	100	100	121566	22445
3.0-4.0	3.46	100	100	64512	11226
4.0-5.5	4.69	100	100	34337	6101
5.5-7.0	6.20	100	100	9394	1656
7.0-10.0	8.37	100	100	7125	1344



%	m ³ /h	Δp Initial (Pa)	Δp Post IPA (Pa)
25	4.43	32.3	39.8
50	8.86	62.2	79.6
75	13.29	92.1	116.9
100	17.72	129.4	164.2
125	22.15	159.2	199.0

DEHS					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
0.3-0.4	0.35	80	71	135543	683482
0.4-0.55	0.47	89	86	126532	682422
0.55-0.7	0.62	94	93	85916	470634
0.7-1.0	0.84	97	98	130660	806825

Reporting Data			
	ePM ₁	ePM _{2.5}	ePM ₁₀
Minimum	85%	90%	97%
Average	87%	91%	97%
Reported	85%	90%	95%

Requestor Information	Test Requestor <u>Angela Henley</u>	Phone: <u>519-512-2457</u>
	Company Name <u>UFT Can Inc.</u>	Email: <u>angela.henley@uftcan.com</u>
	Company Address <u>Worthington Drive Unit 2 Brantford, ON N3S0H</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	85%	90%	--
0.30	0.40	0.35	0.29	80.0%	71.1%	75.6%	Average	87%	91%	97%
0.40	0.55	0.47	0.32	88.7%	85.8%	87.2%	Reported	85%	90%	95%
0.55	0.70	0.62	0.24	94.0%	93.5%	93.7%				
0.70	1.00	0.84	0.36	97.2%	97.8%	97.5%				
KCL										
1.00	1.30	1.14	0.26	99.5%	99.5%	99.5%				
1.30	1.60	1.44	0.21	99.7%	99.7%	99.7%				
1.60	2.20	1.88	0.32	99.9%	99.9%	99.9%				
2.20	3.00	2.57	0.31	100.0%	99.9%	100.0%				
3.00	4.00	3.46	0.29	100.0%	100.0%	100.0%				
4.00	5.50	4.69	0.32	100.0%	100.0%	100.0%				
5.50	7.00	6.20	0.24	100.0%	100.0%	100.0%				
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	75.6%	22.627%	0.065095	0.046285	0.049183	85%	87%
0.40	0.55	0.47	0.32	87.2%	19.891%	0.063343	0.054355	0.055264		
0.55	0.70	0.62	0.24	93.7%	15.837%	0.038193	0.035702	0.035805		
0.70	1.00	0.84	0.36	97.5%	11.522%	0.041097	0.040208	0.040074		
Sums:					0.207728	0.176550	0.180326			
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	75.6%	22.627%	0.065095	0.046285	0.049183	90%	91%
0.40	0.55	0.47	0.32	87.2%	19.891%	0.063343	0.054355	0.055264		
0.55	0.70	0.62	0.24	93.7%	15.837%	0.038193	0.035702	0.035805		
0.70	1.00	0.84	0.36	97.5%	11.522%	0.041097	0.040208	0.040074		
1.00	1.30	1.14	0.26	99.5%	8.503%	0.022309	0.022199	0.022193		
1.30	1.60	1.44	0.21	99.7%	7.618%	0.015817	0.015777	0.015772		
1.60	2.20	1.88	0.32	99.9%	8.022%	0.025546	0.025520	0.025515		
2.20	3.00	2.57	0.31	100.0%	9.984%	0.030966	0.030949	0.030952		
Sums:					0.302366	0.270996	0.274759			
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	75.6%	9.412%	0.027077	0.019253	0.020458	97%	97%
0.40	0.55	0.47	0.32	87.2%	8.395%	0.026733	0.022940	0.023323		
0.55	0.70	0.62	0.24	93.7%	7.432%	0.017924	0.016755	0.016803		
0.70	1.00	0.84	0.36	97.5%	7.014%	0.025016	0.024475	0.024393		
1.00	1.30	1.14	0.26	99.5%	7.628%	0.020013	0.019915	0.019909		
1.30	1.60	1.44	0.21	99.7%	8.833%	0.018340	0.018293	0.018288		
1.60	2.20	1.88	0.32	99.9%	10.804%	0.034406	0.034372	0.034365		
2.20	3.00	2.57	0.31	100.0%	13.726%	0.042573	0.042550	0.042554		
3.00	4.00	3.46	0.29	100.0%	16.708%	0.048067	0.048046	0.048055		
4.00	5.50	4.69	0.32	100.0%	19.542%	0.062233	0.062233	0.062233		
5.50	7.00	6.20	0.24	100.0%	21.671%	0.052261	0.052261	0.052261		
7.00	10.00	8.37	0.36	100.0%	23.143%	0.082545	0.082545	0.082545		
Sums:					0.457189	0.443637	0.445189			

