
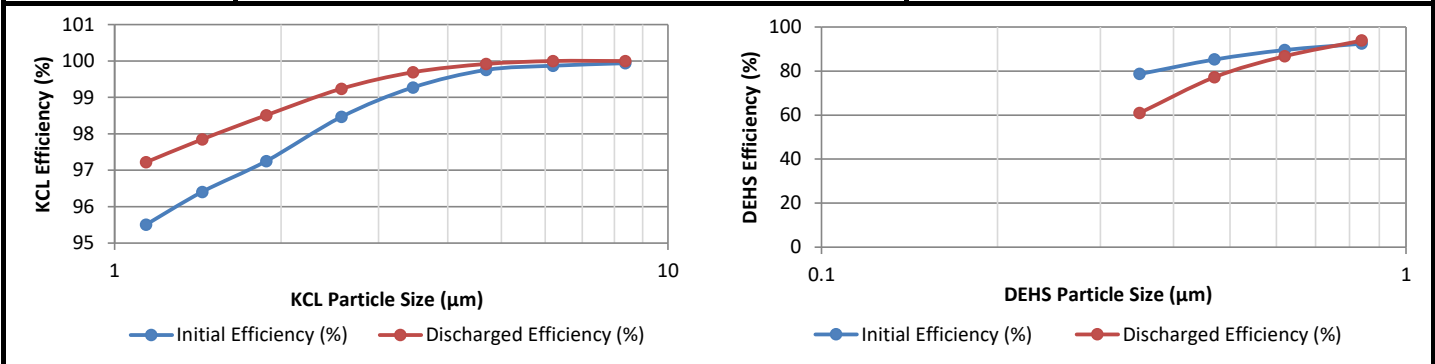


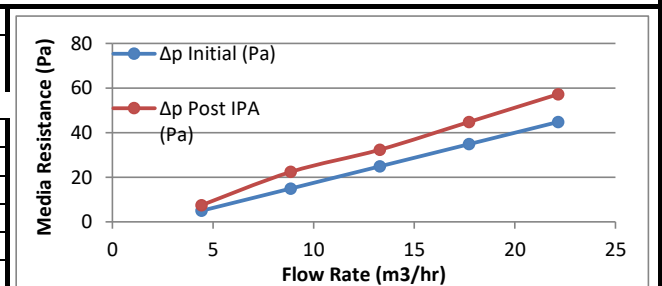
ISO 16890-2 /-4:2016 Air Filter Test Result Summary

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>	Relative Humidity <u>45.0 %</u>
	IPA Discharge Method <input checked="" type="checkbox"/> Vapor Treated <input type="checkbox"/> IPA Dip Method	Barometer <u>29.66 in Hg / 100.44 kPa</u>	

Device Tested	Manufacturer <u>UFT Can Inc.</u>	
	Model <u>STC-16-9-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	96	97	123959	26176
1.3-1.6	1.44	96	98	72952	15723
1.6-2.0	1.88	97	99	180807	36049
2.0-3.0	2.57	98	99	116126	20577
3.0-4.0	3.46	99	100	59928	10538
4.0-5.5	4.69	100	100	31435	5613
5.5-7.0	6.20	100	100	8111	1528
7.0-10.0	8.37	100	100	6000	1126



%	m ³ /h	Δp Initial (Pa)	Δp Post IPA (Pa)
25	4.43	5.0	7.5
50	8.86	14.9	22.4
75	13.29	24.9	32.3
100	17.72	34.8	44.8
125	22.15	44.8	57.2

DEHS					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
0.3-0.4	0.35	79	61	178121	689285
0.4-0.55	0.47	85	77	167408	686571
0.55-0.7	0.62	90	87	113612	474225
0.7-1.0	0.84	92	94	170349	803954

Reporting Data			
	ePM ₁	ePM _{2.5}	ePM ₁₀
Minimum	77%	84%	95%
Average	81%	86%	96%
Reported	80%	85%	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	77%	84%	--
0.30	0.40	0.35	0.29	78.6%	60.9%	69.8%	Average	81%	86%	96%
0.40	0.55	0.47	0.32	85.2%	77.2%	81.2%	Reported	80%	85%	95%
0.55	0.70	0.62	0.24	89.5%	86.7%	88.1%				
0.70	1.00	0.84	0.36	92.4%	93.8%	93.1%				
KCL										
1.00	1.30	1.14	0.26	95.5%	97.2%	96.4%				
1.30	1.60	1.44	0.21	96.4%	97.9%	97.1%				
1.60	2.20	1.88	0.32	97.3%	98.5%	97.9%				
2.20	3.00	2.57	0.31	98.5%	99.2%	98.9%				
3.00	4.00	3.46	0.29	99.3%	99.7%	99.5%				
4.00	5.50	4.69	0.32	99.8%	99.9%	99.8%				
5.50	7.00	6.20	0.24	99.9%	100.0%	99.9%				
7.00	10.00	8.37	0.36	99.9%	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	69.8%	22.627%	0.065095	0.039651	0.045414	77%	81%
0.40	0.55	0.47	0.32	81.2%	19.891%	0.063343	0.048886	0.051430		
0.55	0.70	0.62	0.24	88.1%	15.837%	0.038193	0.033124	0.033660		
0.70	1.00	0.84	0.36	93.1%	11.522%	0.041097	0.038560	0.038270		
Sums:					0.207728	0.160221	0.168773			
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	69.8%	22.627%	0.065095	0.039651	0.045414	84%	86%
0.40	0.55	0.47	0.32	81.2%	19.891%	0.063343	0.048886	0.051430		
0.55	0.70	0.62	0.24	88.1%	15.837%	0.038193	0.033124	0.033660		
0.70	1.00	0.84	0.36	93.1%	11.522%	0.041097	0.038560	0.038270		
1.00	1.30	1.14	0.26	96.4%	8.503%	0.022309	0.021689	0.021498		
1.30	1.60	1.44	0.21	97.1%	7.618%	0.015817	0.015477	0.015363		
1.60	2.20	1.88	0.32	97.9%	8.022%	0.025546	0.025166	0.025005		
2.20	3.00	2.57	0.31	98.9%	9.984%	0.030966	0.030730	0.030610		
Sums:					0.302366	0.253284	0.261250			
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	69.8%	9.412%	0.027077	0.016493	0.018890	95%	96%
0.40	0.55	0.47	0.32	81.2%	8.395%	0.026733	0.020632	0.021705		
0.55	0.70	0.62	0.24	88.1%	7.432%	0.017924	0.015545	0.015796		
0.70	1.00	0.84	0.36	93.1%	7.014%	0.025016	0.023472	0.023295		
1.00	1.30	1.14	0.26	96.4%	7.628%	0.020013	0.019457	0.019286		
1.30	1.60	1.44	0.21	97.1%	8.833%	0.018340	0.017946	0.017813		
1.60	2.20	1.88	0.32	97.9%	10.804%	0.034406	0.033895	0.033678		
2.20	3.00	2.57	0.31	98.9%	13.726%	0.042573	0.042249	0.042084		
3.00	4.00	3.46	0.29	99.5%	16.708%	0.048067	0.047918	0.047818		
4.00	5.50	4.69	0.32	99.8%	19.542%	0.062233	0.062183	0.062132		
5.50	7.00	6.20	0.24	99.9%	21.671%	0.052261	0.052261	0.052227		
7.00	10.00	8.37	0.36	100.0%	23.143%	0.082545	0.082545	0.082520		
Sums:					0.457189	0.434595	0.437245			

