
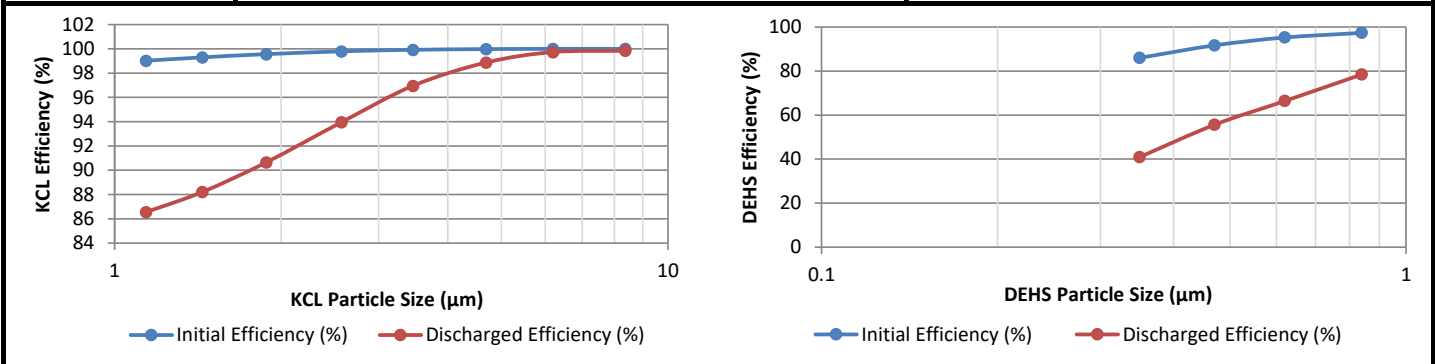
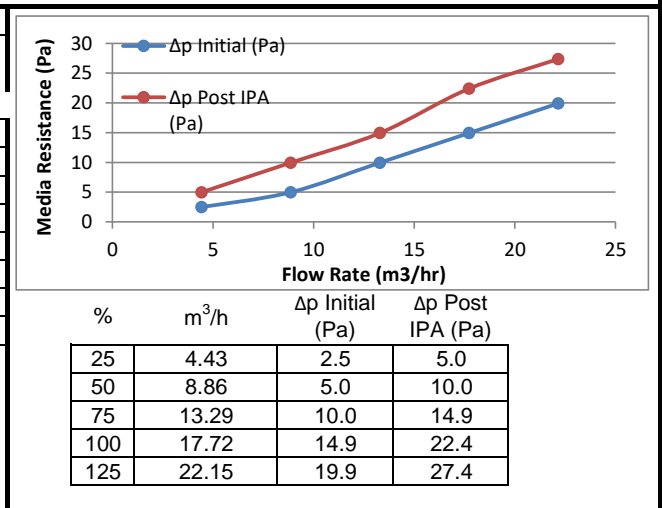


Counter Information	Manufacturer <u>TSI, Inc.</u>	Test Conditions	Test Flow Rate <u>10.5 CFM / 17.84 m3/h</u>
	Model No. <u>3330</u>		Test Aerosol <u>Aerosolized KCl & DEHS</u>
	Serial No. <u>3330174305</u>	Temperature <u>82.0 Deg F / 27.8 Deg C</u>	Relative Humidity <u>45.0 %</u>
	IPA Discharge <input checked="" type="checkbox"/> Vapor Treated Method <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-13-9-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	99	87	111972	26751
1.3-1.6	1.44	99	88	67937	15902
1.6-2.0	1.88	100	91	164849	36216
2.0-3.0	2.57	100	94	102575	20644
3.0-4.0	3.46	100	97	50537	10184
4.0-5.5	4.69	100	99	24889	5508
5.5-7.0	6.20	100	100	6189	1495
7.0-10.0	8.37	100	100	4355	1072



DEHS					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
0.3-0.4	0.35	86	41	151769	672694
0.4-0.55	0.47	92	56	140835	669498
0.55-0.7	0.62	95	66	96025	462122
0.7-1.0	0.84	97	78	144648	782046

Reporting Data			
	ePM ₁	ePM _{2.5}	ePM ₁₀
Minimum	57%	68%	89%
Average	75%	81%	93%
Reported	75%	80%	90%

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	57%	68%	--
0.30	0.40	0.35	0.29	86.0%	40.9%	63.4%	Average	75%	81%	93%
0.40	0.55	0.47	0.32	91.7%	55.6%	73.6%	Reported	75%	80%	90%
0.55	0.70	0.62	0.24	95.2%	66.4%	80.8%				
0.70	1.00	0.84	0.36	97.3%	78.4%	87.9%				
KCL										
1.00	1.30	1.14	0.26	99.0%	86.6%	92.8%				
1.30	1.60	1.44	0.21	99.3%	88.2%	93.8%				
1.60	2.20	1.88	0.32	99.6%	90.7%	95.1%				
2.20	3.00	2.57	0.31	99.8%	94.0%	96.9%				
3.00	4.00	3.46	0.29	99.9%	97.0%	98.4%				
4.00	5.50	4.69	0.32	100.0%	98.9%	99.4%				
5.50	7.00	6.20	0.24	100.0%	99.7%	99.9%				
7.00	10.00	8.37	0.36	100.0%	99.8%	99.9%				
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	63.4%	22.627%	0.065095	0.026628	0.041297	57%	75%
0.40	0.55	0.47	0.32	73.6%	19.891%	0.063343	0.035197	0.046629		
0.55	0.70	0.62	0.24	80.8%	15.837%	0.038193	0.025346	0.030858		
0.70	1.00	0.84	0.36	87.9%	11.522%	0.041097	0.032240	0.036121		
Sums:					0.207728	0.119412	0.154905			
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	63.4%	22.627%	0.065095	0.026628	0.041297	68%	81%
0.40	0.55	0.47	0.32	73.6%	19.891%	0.063343	0.035197	0.046629		
0.55	0.70	0.62	0.24	80.8%	15.837%	0.038193	0.025346	0.030858		
0.70	1.00	0.84	0.36	87.9%	11.522%	0.041097	0.032240	0.036121		
1.00	1.30	1.14	0.26	92.8%	8.503%	0.022309	0.019311	0.020701		
1.30	1.60	1.44	0.21	93.8%	7.618%	0.015817	0.013952	0.014829		
1.60	2.20	1.88	0.32	95.1%	8.022%	0.025546	0.023158	0.024296		
2.20	3.00	2.57	0.31	96.9%	9.984%	0.030966	0.029094	0.029998		
Sums:					0.302366	0.204927	0.244730			
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	63.4%	9.412%	0.027077	0.011076	0.017178	89%	93%
0.40	0.55	0.47	0.32	73.6%	8.395%	0.026733	0.014854	0.019679		
0.55	0.70	0.62	0.24	80.8%	7.432%	0.017924	0.011895	0.014482		
0.70	1.00	0.84	0.36	87.9%	7.014%	0.025016	0.019625	0.021987		
1.00	1.30	1.14	0.26	92.8%	7.628%	0.020013	0.017324	0.018571		
1.30	1.60	1.44	0.21	93.8%	8.833%	0.018340	0.016177	0.017194		
1.60	2.20	1.88	0.32	95.1%	10.804%	0.034406	0.031191	0.032724		
2.20	3.00	2.57	0.31	96.9%	13.726%	0.042573	0.039999	0.041242		
3.00	4.00	3.46	0.29	98.4%	16.708%	0.048067	0.046604	0.047317		
4.00	5.50	4.69	0.32	99.4%	19.542%	0.062233	0.061532	0.061877		
5.50	7.00	6.20	0.24	99.9%	21.671%	0.052261	0.052123	0.052192		
7.00	10.00	8.37	0.36	99.9%	23.143%	0.082545	0.082415	0.082480		
Sums:					0.457189	0.404816	0.426922			

