

## Cleanliness Evaluation as per IEST-STD-CC1246E

<b>Sample name:</b> <b>Analyst:</b> <b>Sample Size:</b> <b>Number of Samples:</b> <b>ID of replicate samples:</b>	<b>Calibration:</b> 1.4055 µm/pixel <b>Magnification:</b> 50X <b># Fields:</b> 1 <b>Target Level:</b> 25 <b>Fallout Level F:</b> NA
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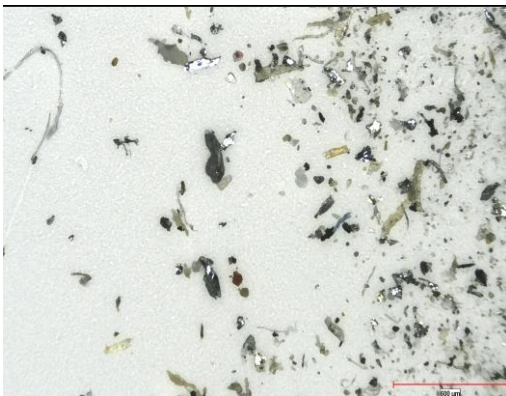
**Date procured:** \_\_\_\_\_ **Date tested:** \_\_\_\_\_

**Additional information:**  
 Note: Complete surface analyzed  
 Operating condition of item during test procurement.  
 Environment in which sample was taken  
 Equipment used to take sample  
 Method used to obtain sample.  
 Method used to perform test

**Results**

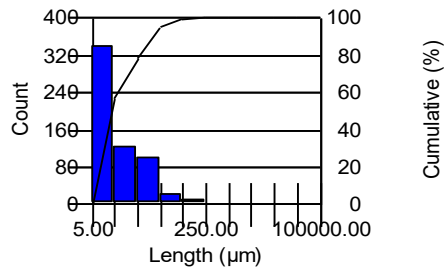
	<b>Normalized to 0.1 m<sup>2</sup></b>	
<b>Total area analyzed:</b>	4551270.687 mic <sup>2</sup>	0.1 m <sup>2</sup>
<b>Total particle count:</b>	591	12985384.5
<b>Total particle area:</b>	163213.6238 mic <sup>2</sup>	3.5861E+09 mic <sup>2</sup>
<b>Percent Area Coverage:</b>	3.586111 %	UCL: 640.6      LCL: 545.2

Size Range (mic)	Level: 25 Max count	Max Fallout	Total (0.1 m <sup>2</sup> )	Count		(Over) / Room
				(as measured)	(for 0.1m <sup>2</sup> )	
5 <15	19	0	19	339	7448469	(7448450)
15 < 25	2	0	2	125	2746486	(2746484)
25 <50	1	0	1	100	2197189	(2197188)
50 <100	0	0	0	23	505353	(505353)
100 <250	0	0	0	4	87888	(87888)
250 <500	0	0	0	0	0	0
500 <750	0	0	0	0	0	0
750 <1000	0	0	0	0	0	0
1000 <1250	0	0	0	0	0	0
1250 and over	0	0	0	0	0	0



Largest particle found.

**Particle Size Distribution**



MEASURED results

Length (µm)		Count	%	Cumul%	cumul fin	Normalize Norm. Cumul		Levels	F_Levels
From	To					Count	Count	1000	1000
						0.1		750	750
5	15	339	57	57	591	7448469	12985385	500	500
15	25	125	21	79	252	2746486	5536915	400	400
25	50	100	17	95	127	2197189	2790430	300	300
50	100	23	4	99	27	505353	593241	200	200
100	250	4	1	100	4	87888	87888	100	100
250	500	0	0	100	0	0	0	50	50
500	750	0	0	100	0	0	0	25	25
750	1000	0	0	100	0	0	0		NA
1000	1250	0	0	100	0	0	0		
1250	100000	0	0	100	0	0	0		

Area analyzed in mic2 4551270.687  
 Area analyzed in m2: 4.55127E-06  
 for 0.1 m2 21971.88585 0.10  
 Slope -0.926  
 Fallout slope -0.4

PS		25	50	100	200	300	400	500	750	1000
5	15	19	141	1519	24028	144498	559099	1671847	13555045	64834480
15	25	2	17	186	2949	17734	68620	205192	1663668	7957409
25	50	1	6	67	1069	6433	24892	74435	603507	2886605
50	100	0	1	9	154	926	3583	10716	86888	415591
100	250	0	0	1	15	92	359	1073	8704	41636
250	500	0	0	0	0	2	8	25	205	983
500	750	0	0	0	0	0	0	1	7	33
750	1000	0	0	0	0	0	0	0	1	3
1000	1250	0	0	0	0	0	0	0	0	1

-0.4 PS - Fallout		25	50	100	200	300	400	500	750	1000	NA
5	15	2	5	14	47	102	183	293	725	1425	0
15	25	1	2	5	15	33	58	94	232	455	0
25	50	1	1	4	12	27	49	78	193	379	0
50	100	0	1	2	6	13	23	37	91	179	0
100	250	0	0	1	3	6	10	16	41	80	0
250	500	0	0	0	0	1	2	3	8	15	0
500	750	0	0	0	0	0	0	1	1	3	0
750	1000	0	0	0	0	0	0	0	1	1	0
1000	1250	0	0	0	0	0	0	0	0	1	0