

Cleanliness Inspection Report

For:

Part #/Sample ID	Analysis Date
1	7/1/2014 10:52:00 AM

Generated by:

Your Company Name

FEI™

CleanCHK

Inspection Report

Sample Information		Sample Prep Information		Run Information	
Company:	Aspex	Component Surface By:	Volume	Magnification:	250x
Operator Name:	Joe	Volume of Extraction (mm³):	100	Number of Stage Fields:	822
Part # / Sample ID:	1	Projected Volume(mm³):	100	Area Scanned(mm²):	4.1
Analysis Date:	7/1/2014 10:52 AM	Filter Size (mm):	300	RunID's Present:	87

ISO16232/VDA-19 Results

Size Class		B	C	D	E	F	G	H	I	J	K
Size Range (um)	**Total**	5 ≥ X < 15	15 ≥ X < 25	25 ≥ X < 50	50 ≥ X < 100	100 ≥ X < 150	150 ≥ X < 200	200 ≥ X < 400	400 ≥ X < 600	600 ≥ X < 1000	X ≥ 1000
Steel	59	3	3	10	22	7	2	11	1		
100Cr6	2	1			1						
Organics	4	2	1					1			
Mineral	15	7	3	2	3						
Fe-Cu	1		1								
500um up	1									1	
Misc Salts	7	2	1	2	2						
Zn Coating	4		1		2		1				
Al-Alloy	2			2							
Low Alloy Steel	1					1					
Misc	3		1	1		1					
High Alloy Steel	1				1						
Total Counts	100	15	11	17	31	9	3	12	1	1	0
Cleanliness Level		4	4	5	5	4	2	4	0	0	00

Component Cleanliness Code (CCC): V(B4/C4/D5/E5/F4/G2/H4/I0/J0/K00)

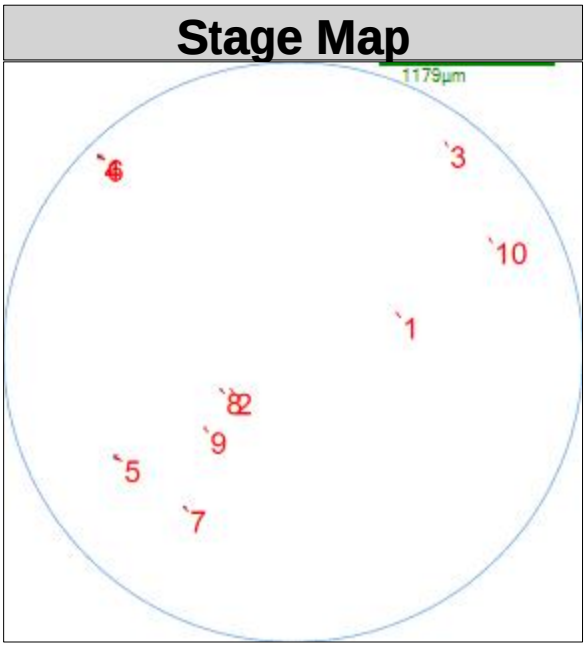
Notes:

Generated by:

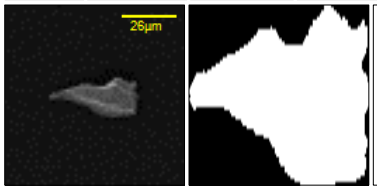
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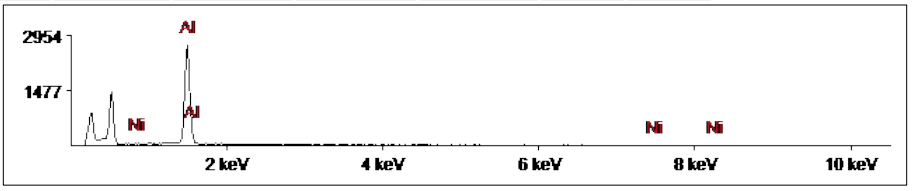
Individual Particle Parameters

Stage Map

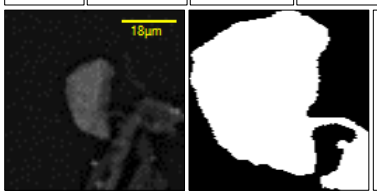


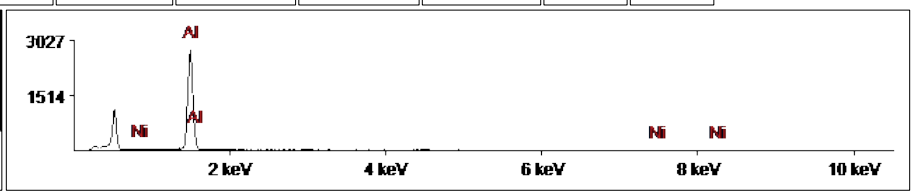
Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	Al	Ni
1	32	42.680	18.008	Al-Alloy	0.105	6.422	2.118	98.100	1.900





Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	Al	Ni
2	52	31.324	15.339	Al-Alloy	-3.824	4.607	1.695	98.600	1.400

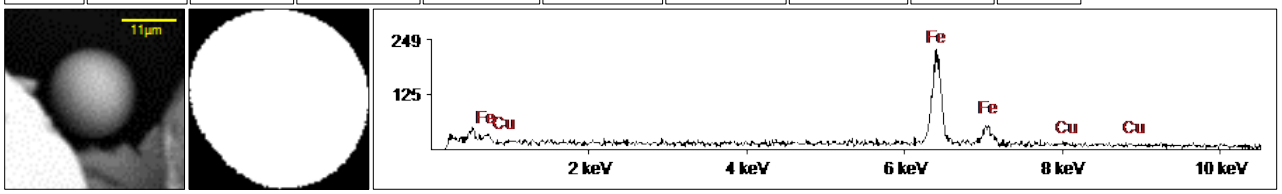




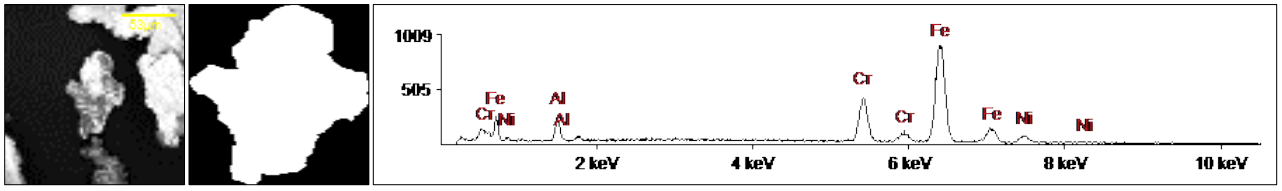
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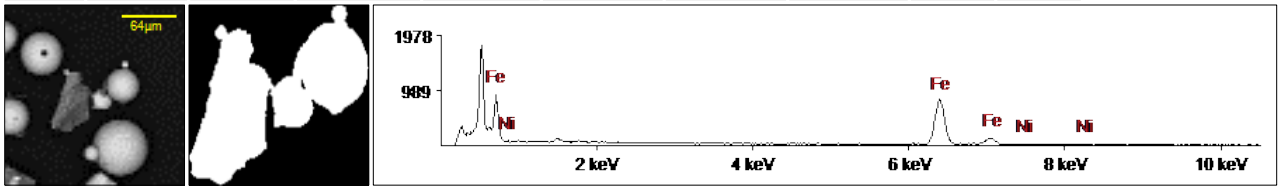
Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	Fe	Cu
3	21	17.665	16.250	Fe-Cu	1.252	10.472	1.097	97.400	2.600



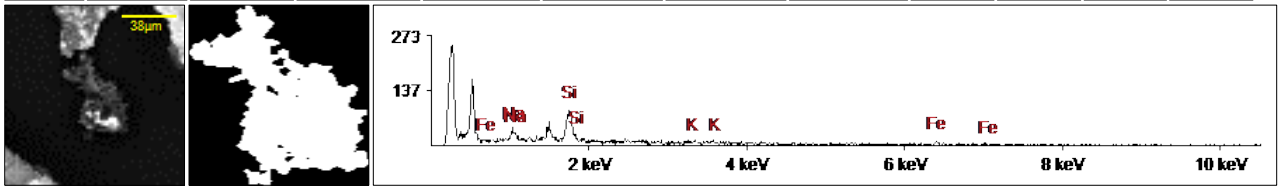
Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	Fe	Cr	Ni	Al
4	69	87.169	41.637	High Alloy Steel	-6.952	10.113	1.471	69.300	21.400	7.000	2.300



Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	Fe	Ni
5	39	118.522	40.350	Low Alloy Steel	-6.537	2.982	1.524	99.000	1.000



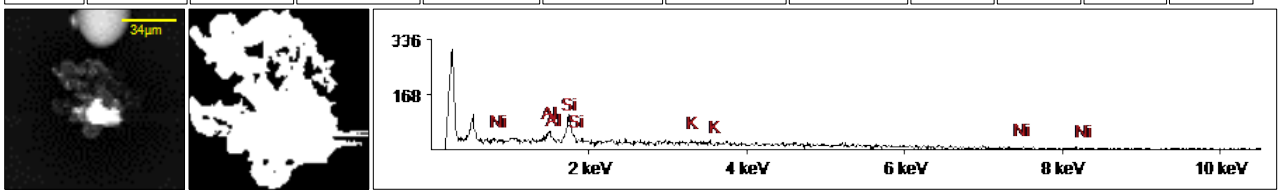
Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	K	Si	Fe	Na
6	72	62.794	30.750	Mineral	-6.882	10.113	1.698	44.900	19.900	10.700	8.500



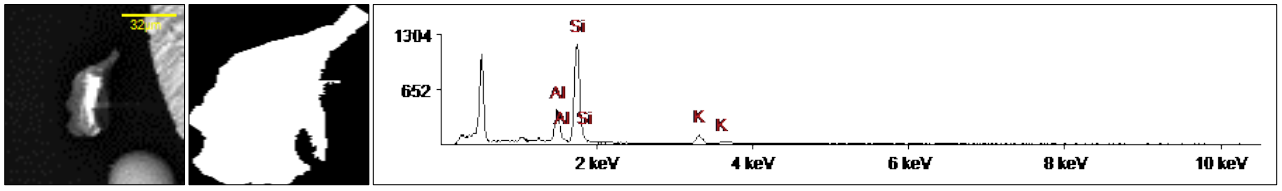
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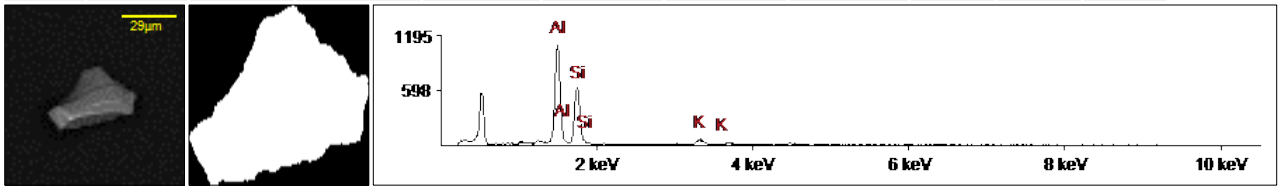
Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	K	Si	Ni	Al
7	75	61.956	24.620	Mineral	-4.917	1.806	1.475	74.400	10.100	5.200	3.400



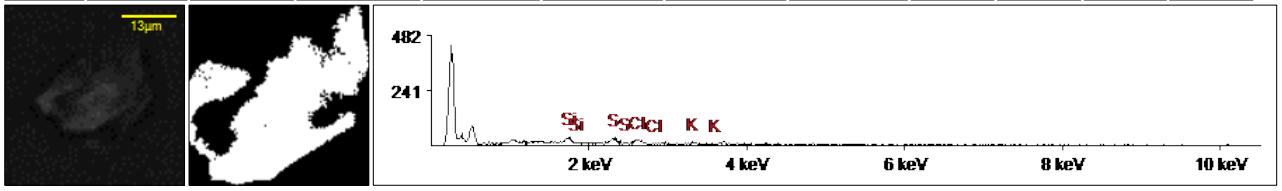
Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	K	Si	Al
8	48	57.023	21.771	Mineral	-4.053	4.593	1.978	86.800	10.200	3.000



Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	K	Al	Si
9	12	48.091	27.032	Mineral	-4.439	3.685	1.610	74.800	16.200	9.100



Rank	ID	Size(µm)	Width(µm)	Class	X	Y	Aspect	K	S	Cl	Si
10	16	25.007	8.438	Mineral	2.299	8.192	1.452	80.300	6.200	4.700	3.700



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Histogram Table

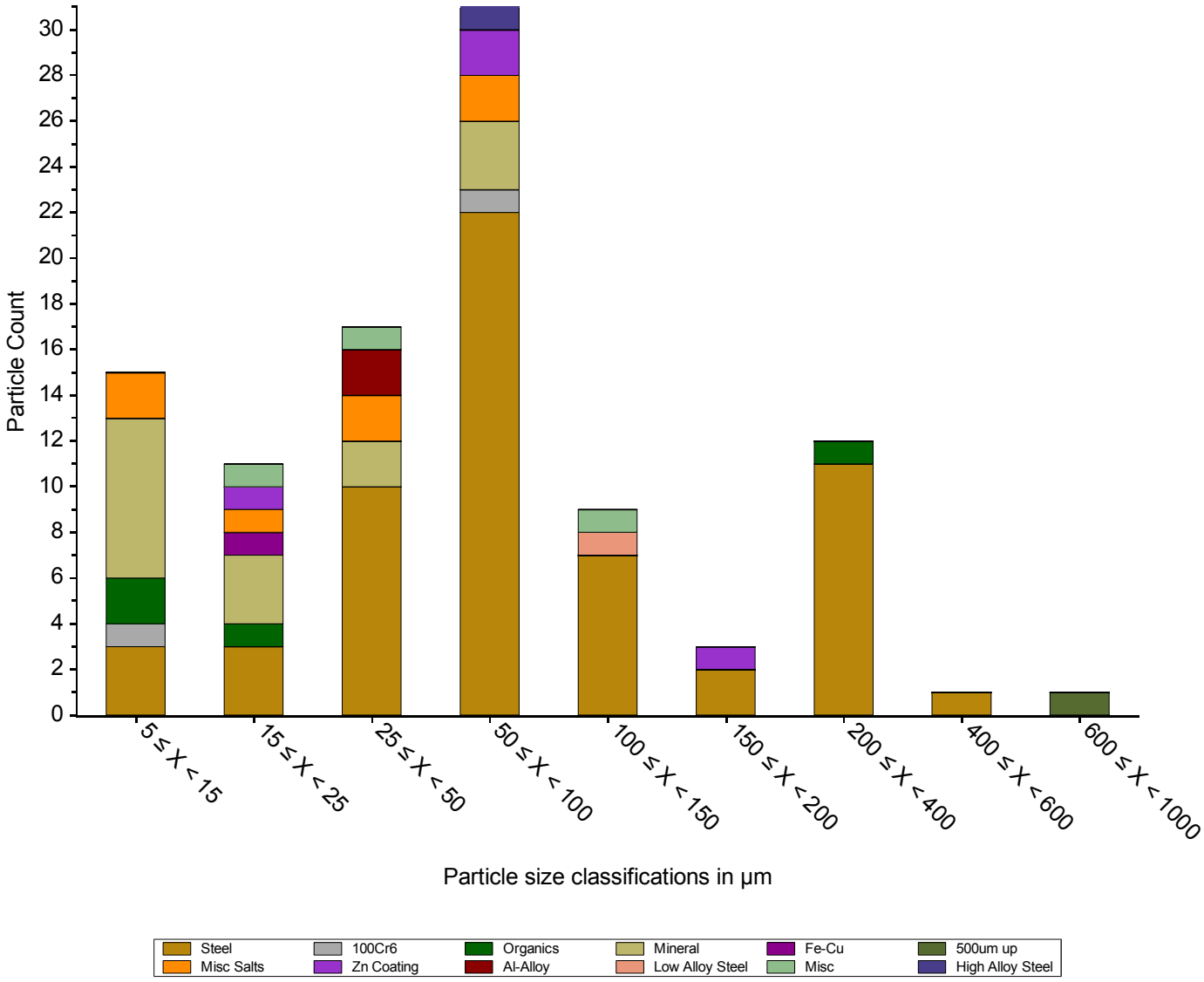
Particle Results

Size Class Based On: DMAX		B	C	D	E	F	G	H	I	J	
Size Range (um)	Total	5 ≥ X < 15	15 ≥ X < 25	25 ≥ X < 50	50 ≥ X < 100	100 ≥ X < 150	150 ≥ X < 200	200 ≥ X < 400	400 ≥ X < 600	600 ≥ X < 1000	
Steel	59	3	3	10	22	7	2	11	1		
100Cr6	2	1			1						
Organics	4	2	1					1			
Mineral	15	7	3	2	3						
Fe-Cu	1		1								
500um up	1									1	
Misc Salts	7	2	1	2	2						
Zn Coating	4		1		2		1				
Al-Alloy	2			2							
Low Alloy Steel	1					1					
Misc	3		1	1		1					
High Alloy Steel	1				1						
Total Counts	100	15	11	17	31	9	3	12	1	1	
Notes:											

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Histogram Chart Generated Based On DMAX



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Chemistry Table

Average chemical composition reported in %

Classification	Particles	Na	Mg	Al	Fe	Cu	Zn
Steel	59				95.5	0.0	
100Cr6	2				97.1	0.7	
Organics	4			1.0	6.1	3.7	
Mineral	15	2.1	0.3	4.4	10.8	0.4	1.4
Fe-Cu	1				97.4	2.6	
500um up	1				100.0		
Misc Salts	7	2.1	0.5		6.1		0.4
Zn Coating	4				40.3		57.9
Al-Alloy	2			98.4			
Low Alloy Steel	1				99.0		
Misc	3	1.2		42.1	11.8		
High Alloy Steel	1			2.3	69.3		

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