

# CERTIFICATE

*This certifies the product conforms to E6 Specification*

**Customer  
Reference  
Customer Item No.  
Description**

Sample Customer  
Test Sale

**Item Number** 130-500-0285-30  
**Product** ABN900 80100 B181  
**Lot Number** 4715152  
**Batch Number** 4506725  
**Date of Issue** 09/06/2016

Sizing	Aperture	Measured		Status
Oversize	>197	2	%	PASS
Onsize	151-197	97	%	PASS
Undersize	<151	1	%	PASS

Test	Test	Result	Specification	Status
Strength	% Residue Room T	66 %		PASS
	% Residue 1100 C	47 %		PASS
Colour	Colour L	51.51		PASS



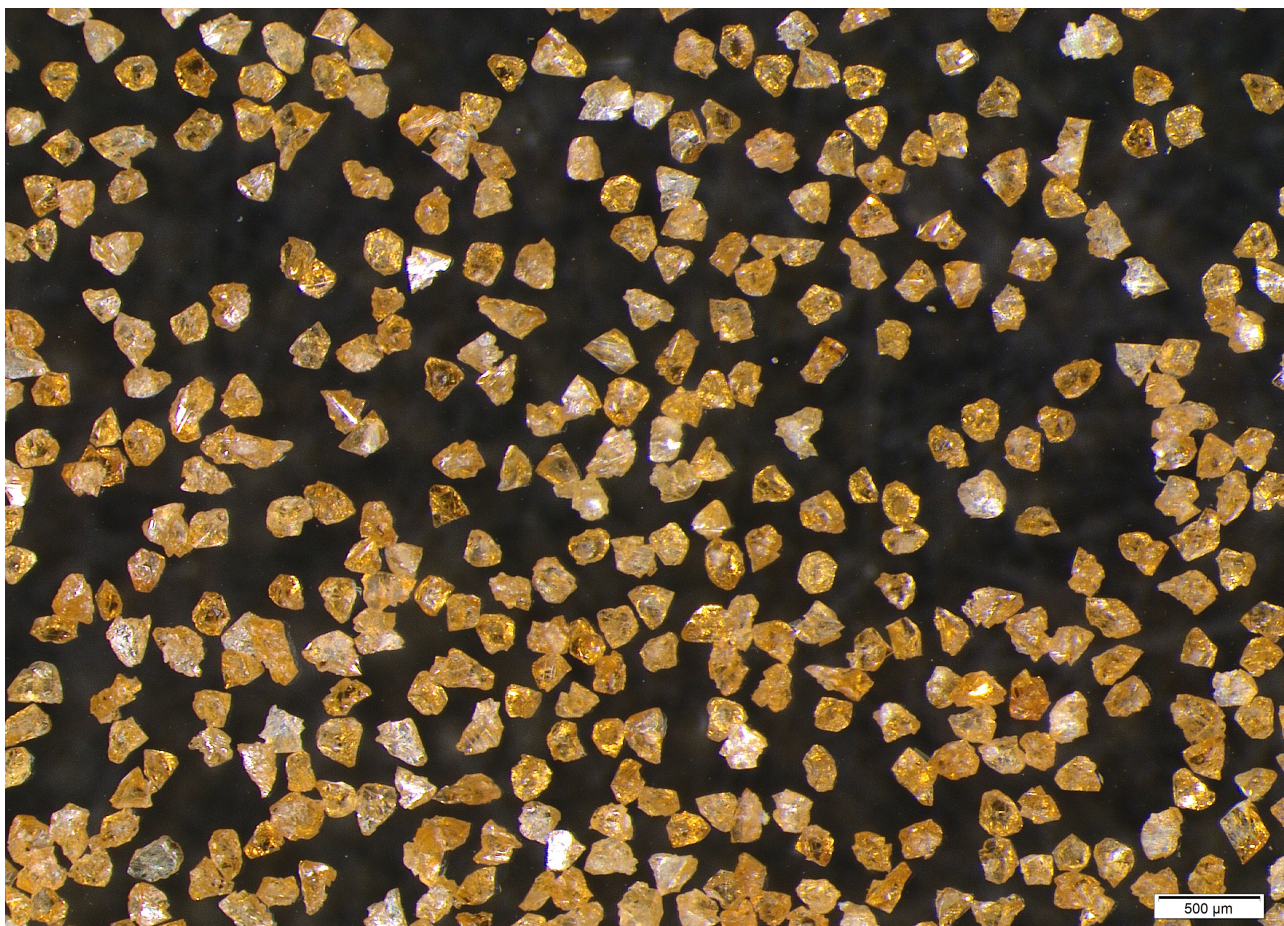
*Ned Vaughan*

**Ned Vaughan**  
*Quality Manager*

Specifications are documented for all diamond products and controls are implemented to ensure that the products are tested and meet the internationally accepted standards for sizing, as specified in the ANSI B74.16.2002 and FEPA 61-97 standards. In addition to this, all diamond products are processed and certified to meet Element Six specifications for purity, strength, shape and consistency. All materials are uniquely labelled with a Batch or Lot number. These numbers ensure traceability of the shipped product to the source materials and the manufacturing process. Element Six manufacturing companies worldwide are accredited to the ISO9001: 2008 series of standards for quality management. CAS # is listed on TSCA Inventory.

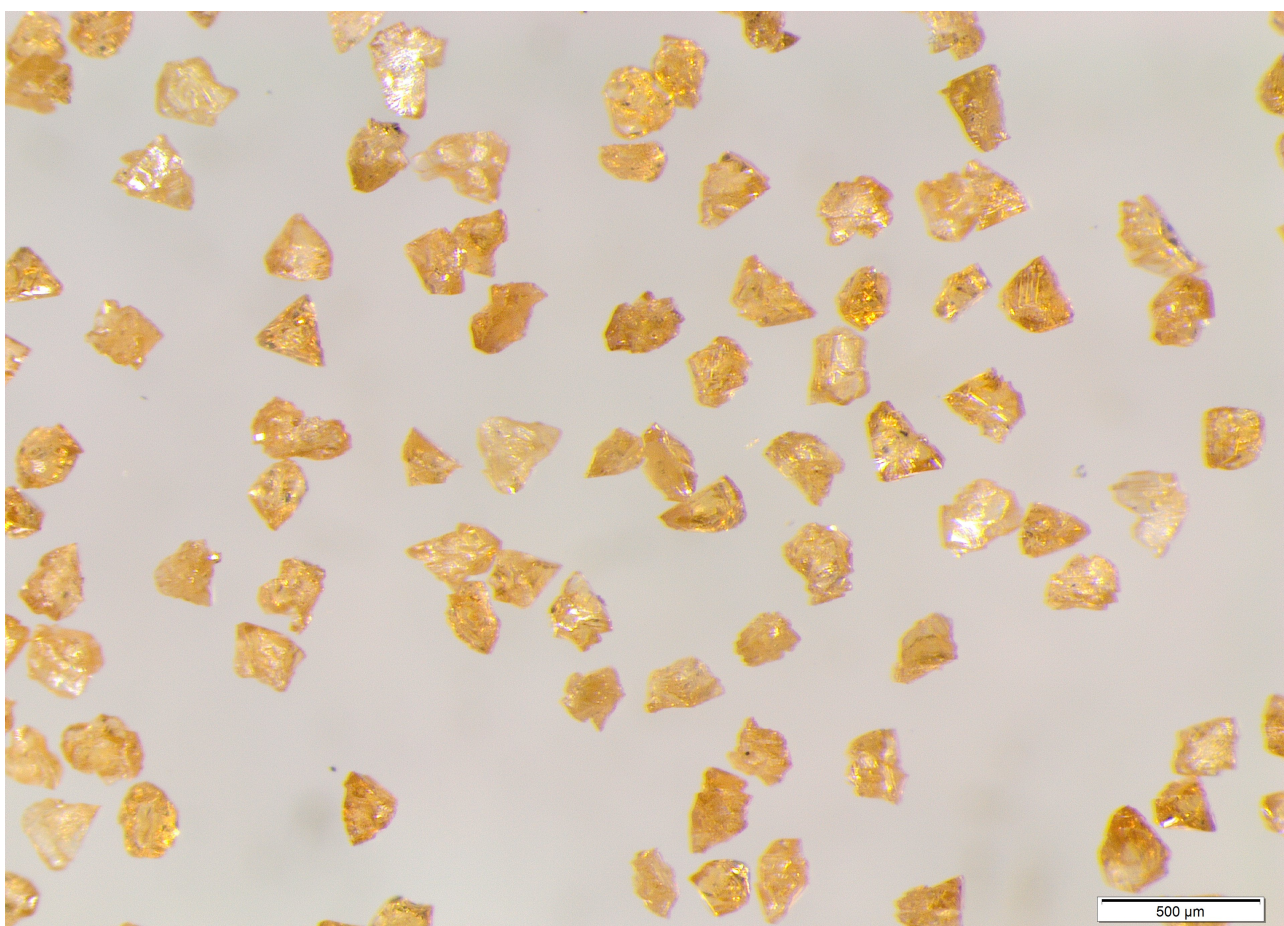
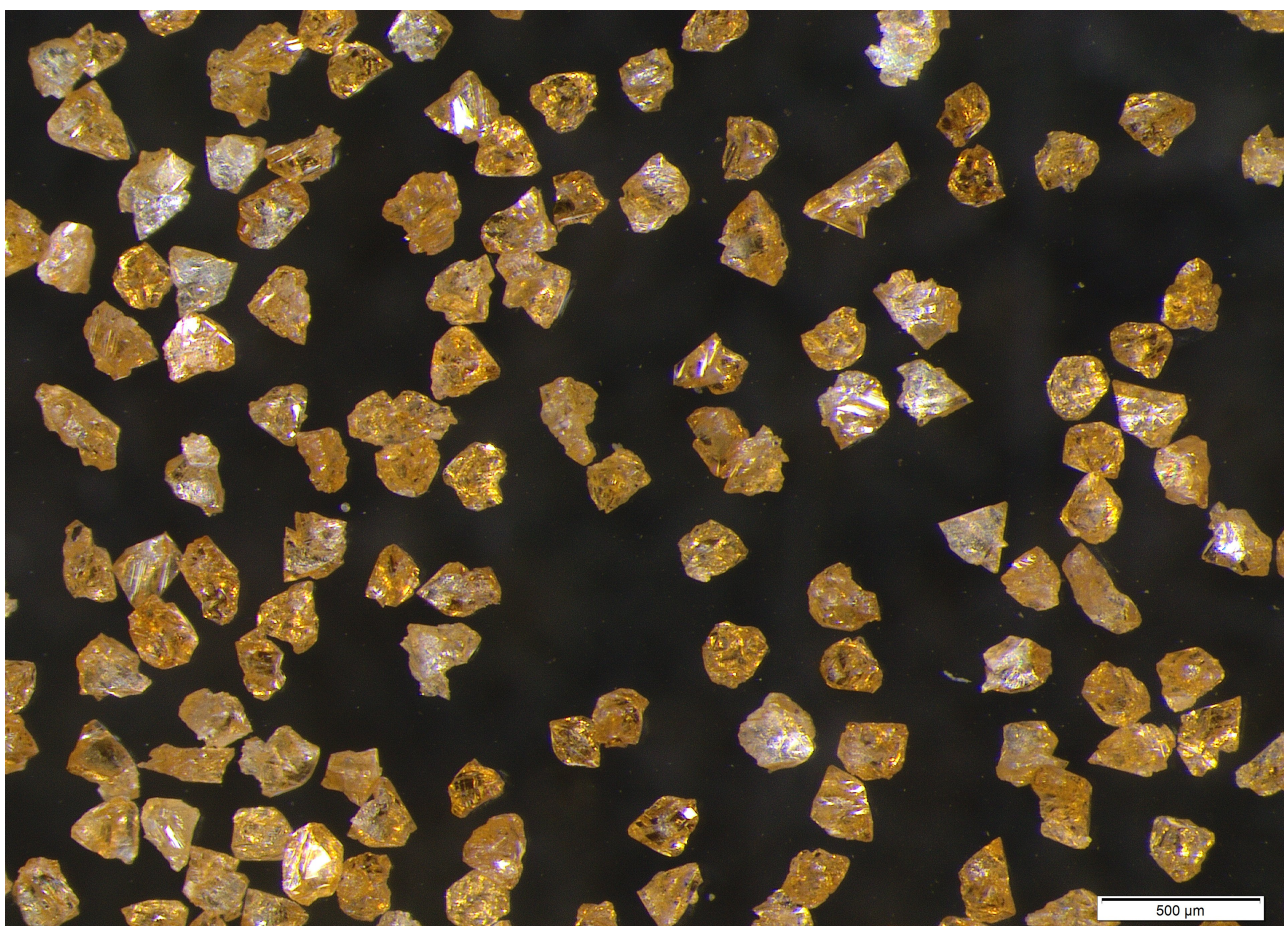


# Product Images





# Product Images





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**Customer  
Reference  
Customer Item No.  
Description**

Element Six Technologies Ltd

**Item Number** 135-200-0105-35  
**Product** MICRON+MDA M1525  
**Lot Number** 5213392  
**Batch Number** 5213336  
**Date of Issue** 07/04/2017

Test	Test	Result	Specification	Status
Sizing	Malvern D10	11.18 UM	▲	PASS
	Malvern D4.3	15.71 UM	▲	PASS
	Malvern D90	20.81 UM	▲	PASS



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## Result Analysis Report

**Sample Name:**  
MDAMICRONSR GRADE18

**Sample Source & type:**  
Factory = BATCH NO:5213336

**Sample bulk lot ref:**

**SOP Name:**  
MEDIUM 4~15 um SOP NARROW 12%

**Measured by:**  
micronqc

**Result Source:**  
Measurement

**Product Description:**  
MICRON+MDA M1525

**Product LOT No:**  
5213392

**Batch No:**  
5213336

**Particle Name:**  
e6 2405 001 246 08

**Accessory Name:**  
Hydro 2000G (A)

**Analysis model:**  
Single narrow mode

**Sensitivity:**  
Enhanced

**Particle RI:**  
2.405

**Absorption:**  
0.001

**Size range:**  
0.020 to 2000.000 um

**Obscuration:**  
13.08 %

**Dispersant Name:**  
Water

**Dispersant RI:**  
1.330

**Weighted Residual:**  
0.515 %

**Result Emulation:**  
Off

**Concentration:**  
0.0282 %Vol

**Span :**  
0.629

**Uniformity:**  
0.199

**Specific Surface Area:**  
0.115 m<sup>2</sup>/g

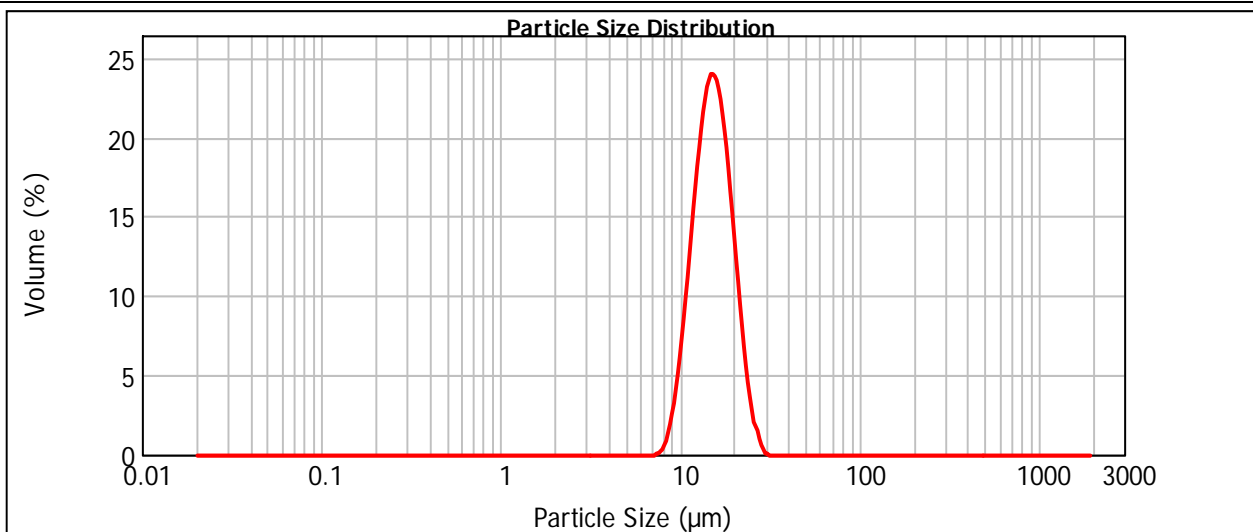
**Surface Weighted Mean D[3,2]:**  
14.846 um

**Vol. Weighted Mean D[4,3]:**  
15.71 um

**d(0.1):** 11.18 um

**d(0.5):** 15.3 um

**d(0.9):** 20.81 um



—MDAMICRONSR GRADE18, 23 March 2017 11:47:31

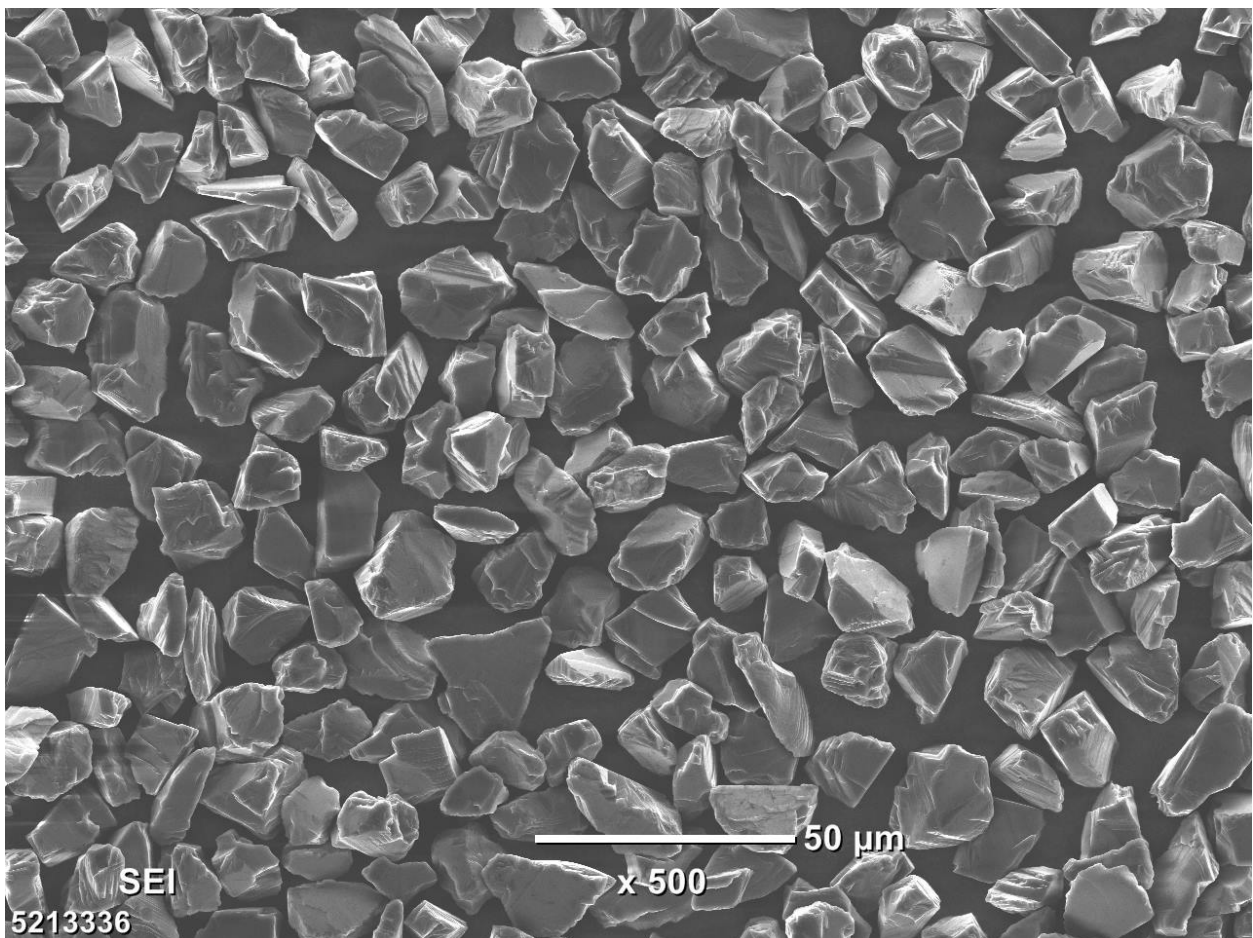
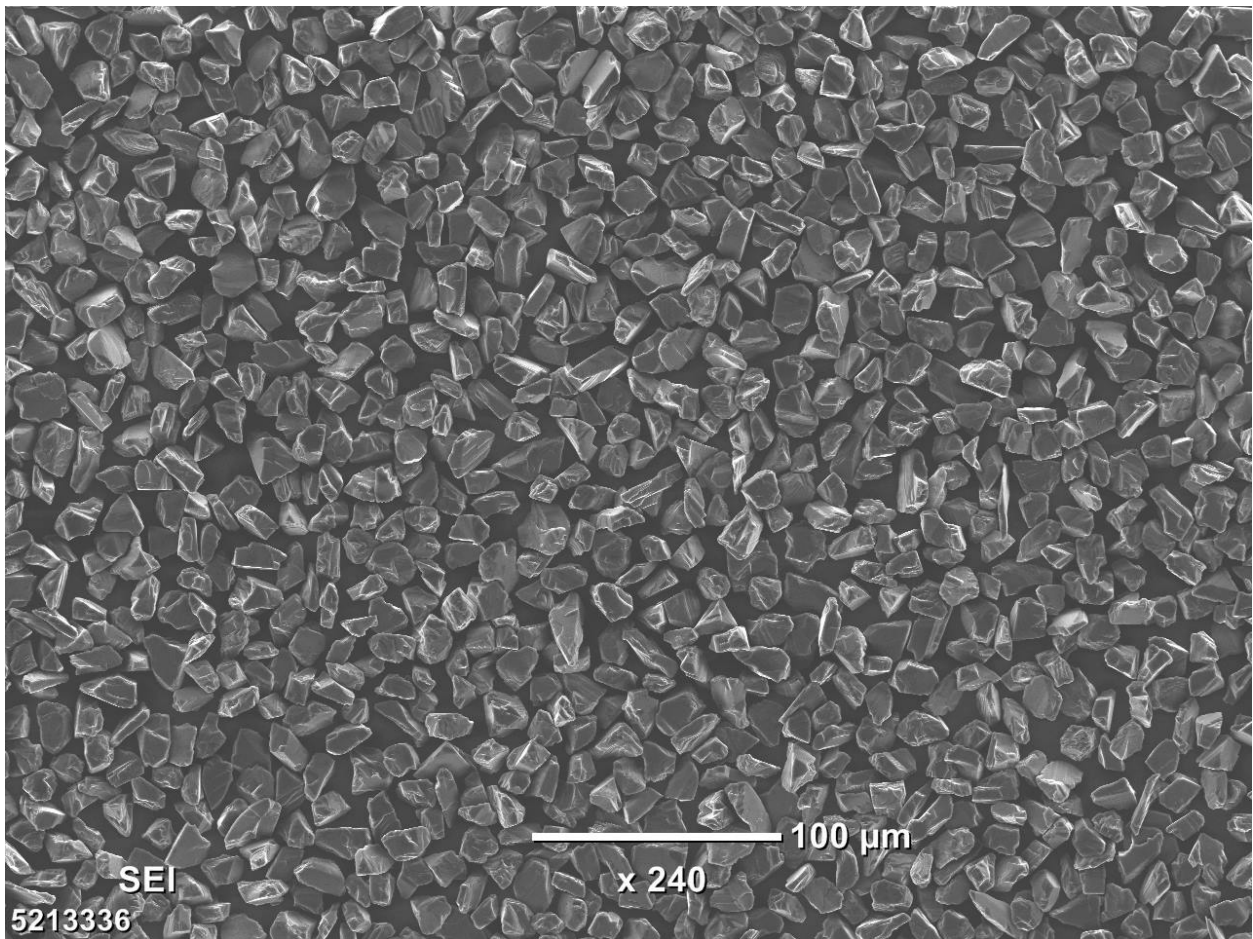
Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %
0.010	0.00	0.105	0.00	1.096	0.00	11.482	15.45	120.226	0.00	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	0.00	13.183	20.73	138.038	0.00	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	0.00	15.136	21.26	158.489	0.00	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	0.00	17.378	16.67	181.970	0.00	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	0.00	19.953	9.65	208.930	0.00	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	0.00	22.909	3.62	239.883	0.00	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	0.00	26.303	0.47	275.423	0.00	2884.032	0.00
0.026	0.00	0.275	0.00	2.884	0.00	30.200	0.00	316.228	0.00	3311.311	0.00
0.030	0.00	0.316	0.00	3.311	0.00	34.674	0.00	363.078	0.00	3801.894	0.00
0.035	0.00	0.363	0.00	3.802	0.00	39.811	0.00	416.869	0.00	4365.158	0.00
0.040	0.00	0.417	0.00	4.365	0.00	45.709	0.00	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.00	5.012	0.00	52.481	0.00	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	0.00	5.754	0.00	60.256	0.00	630.957	0.00	6606.934	0.00
0.060	0.00	0.631	0.00	6.607	0.00	69.183	0.00	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	0.00	7.586	0.00	79.433	0.00	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	0.00	8.710	3.11	91.201	0.00	954.993	0.00	10000.000	0.00
0.091	0.00	0.955	0.00	10.000	8.58	104.713	0.00	1096.478	0.00		
0.105	0.00	1.096	0.00	11.482		120.226	0.00	1258.925	0.00		

Operator notes:

Result edit report page : No

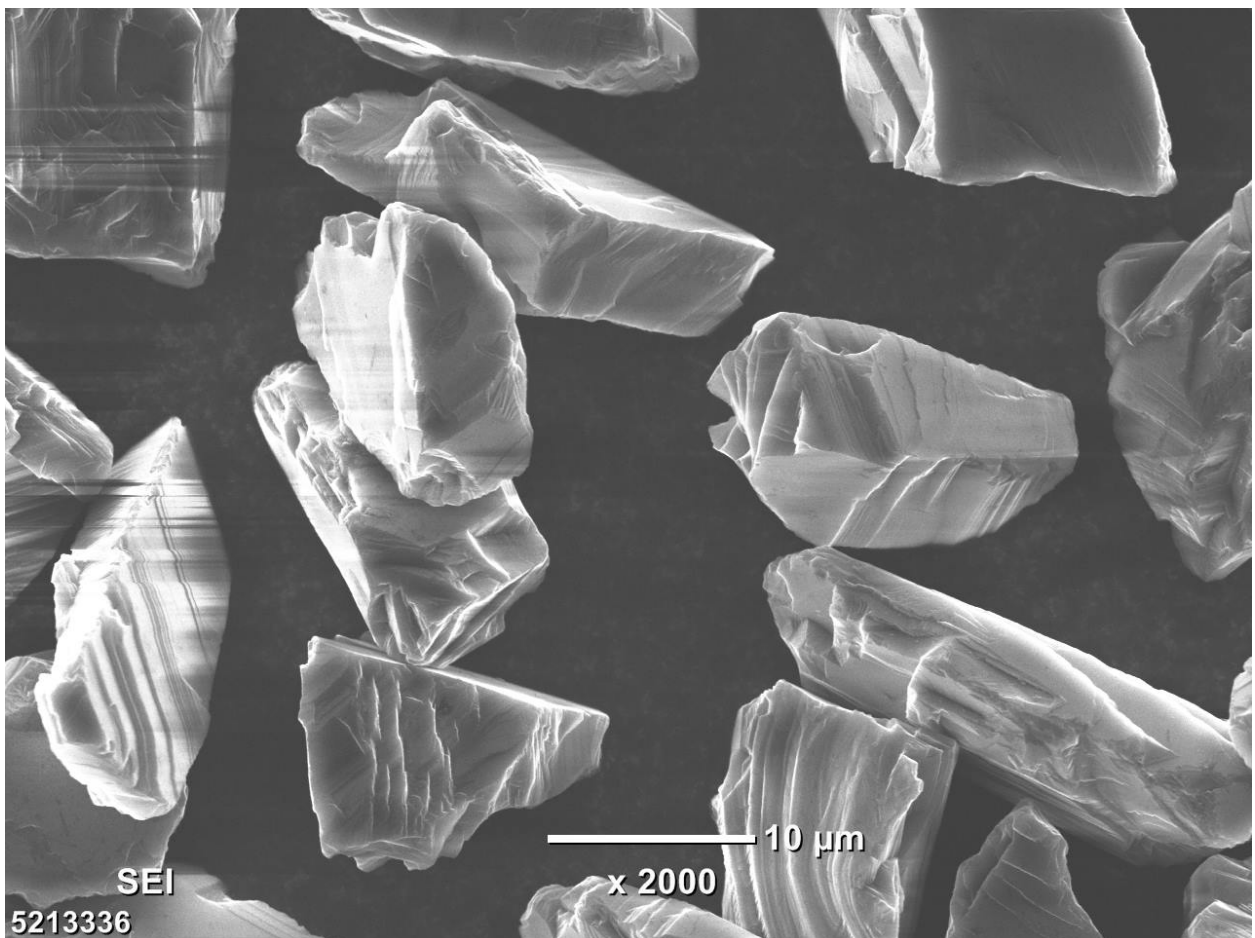
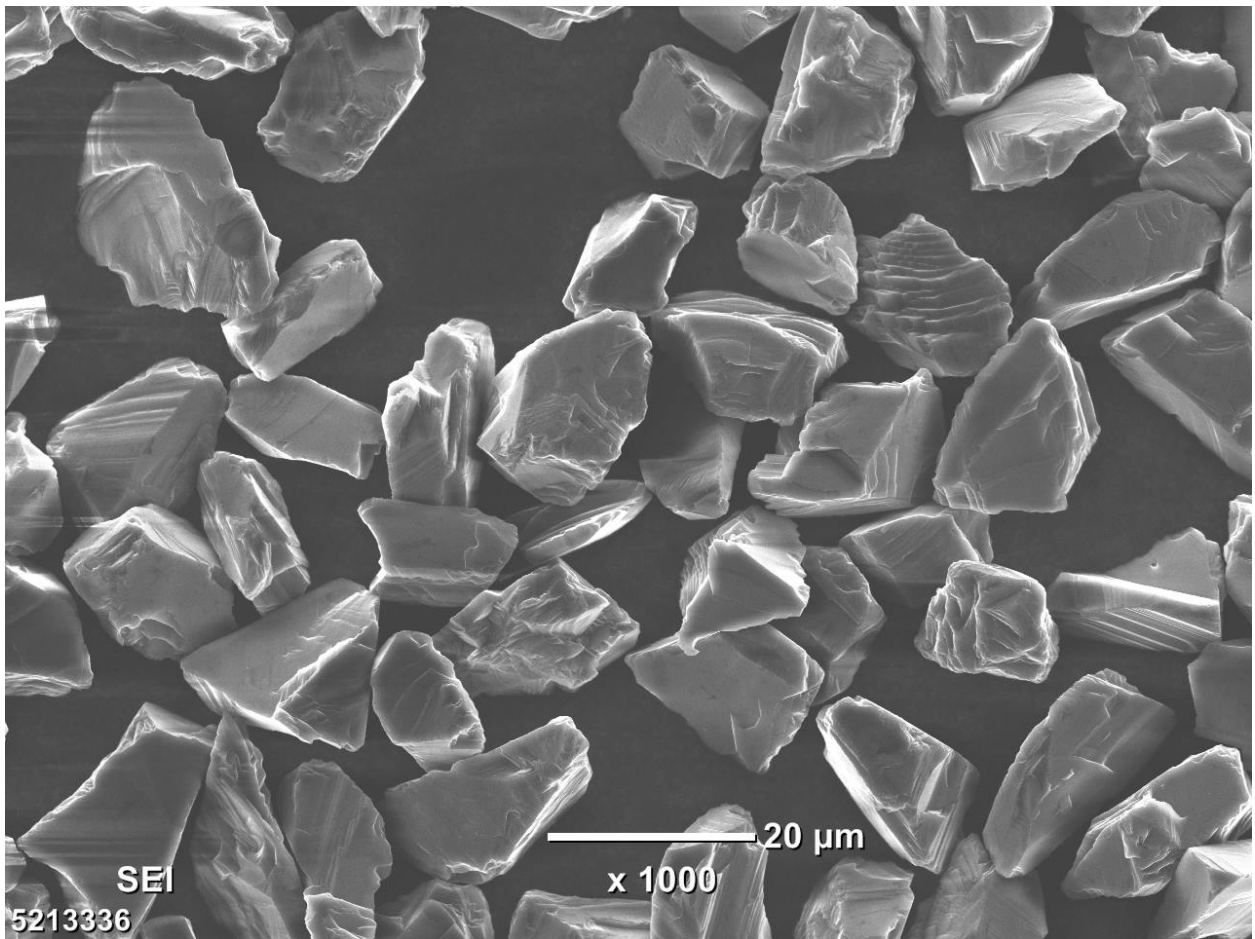


# SEM Images





# SEM Images





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**Customer Reference**  
**Customer Item No.**  
**Description**

Element Six Limited  
PDA Sample

**Item Number** 120-200-1759-99  
**Product** PDA311NX55 200230 D76  
**Lot Number** 5132529  
**Batch Number** 5129193  
**Date of Issue** 20/12/2016

Sizing	Aperture	Measured	Status
Oversize	>85	1 %	PASS
Onsize	65-85	92 %	PASS
Undersize	<65	7 %	PASS

Test	Test	Result	Specification	Status
Strength	% Residue Room T	59.8 %	▲	PASS
Colour	Colour L	48.00		PASS
Coating / Cladding	Assay	53.39 %	▲	PASS



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