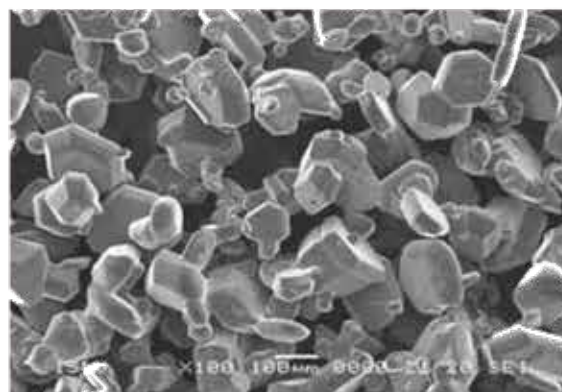


High Purity SiC Powder



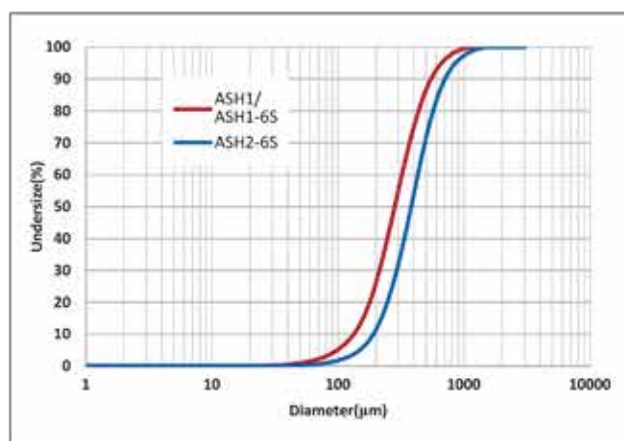
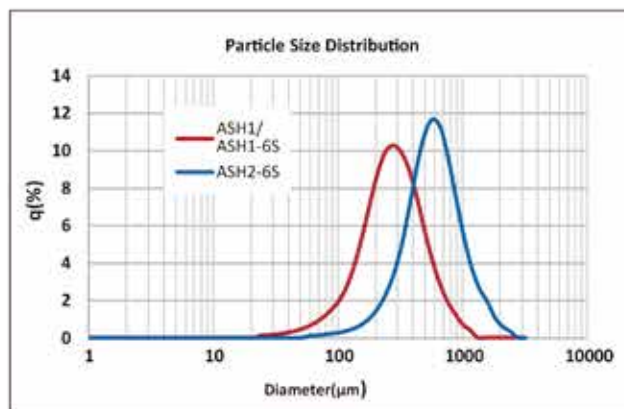
- ▶ ACME's High Purity SiC powders manufactured via Eco-friendly and low energy consumption processes.
- ▶ Nitrogen (N) content around 5 ppm as well as good particle size distribution for ideal SiC single crystal growth.



SiC Powder Characteristics

Characteristics	Unit	Spec.	
		ASH1/ ASH1-6S	ASH2-6S
Grain Size (D50)	mm	0.3	0.5
Typical Trace Elements			
B	ppm	< 1	
Na	ppm	< 1	
Mg	ppm	< 1	
Al	ppm	< 1	
P	ppm	< 1	
Fe	ppm	< 1	
Ca	ppm	< 1	
Co	ppm	< 1	
Cr	ppm	< 1	
Cu	ppm	< 1	
K	ppm	< 1	
Ni	ppm	< 1	
Ti	ppm	< 1	
W	ppm	< 1	
V	ppm	< 1	
Purity	%	> 99.9999	
Packing Density	g/cm ³	> 1.3	

SiC Powder Particle Distribution



High Purity SiC Powder



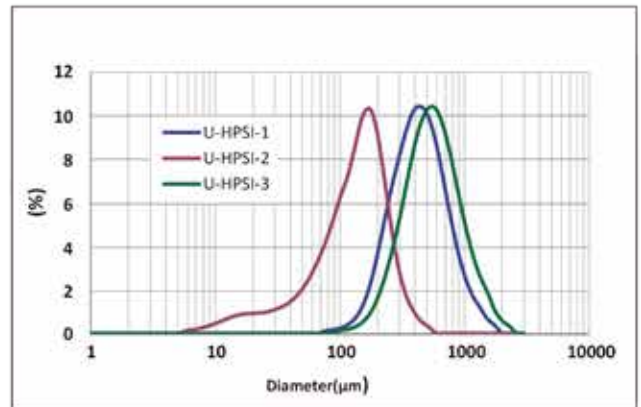
- ▶ ACME's High Purity SiC powders manufactured via Eco-friendly and low energy consumption processes.
- ▶ Nitrogen (N) content < 1 ppm as well as good particle size distribution for ideal Semi-insulating SiC single crystal growth.



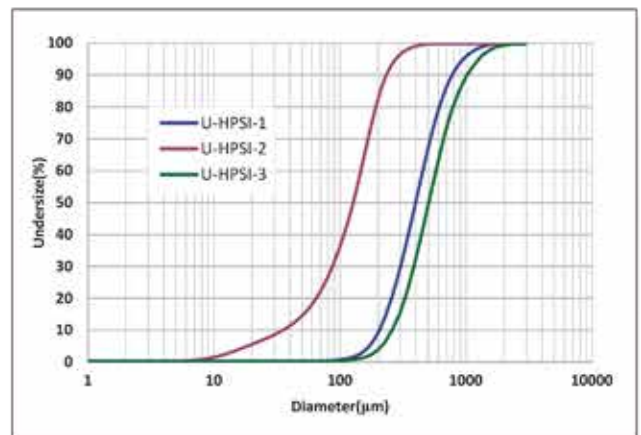
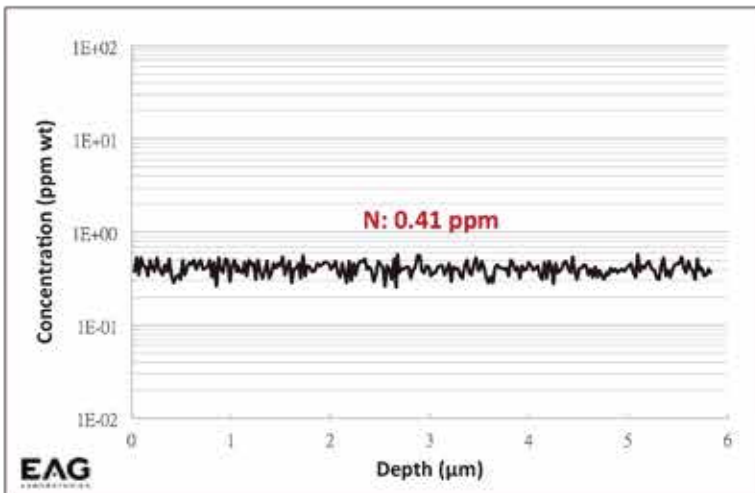
Semi-insulating SiC Powder Characteristics

Characteristics	Unit	Spec.		
		U-HPSI-1	U-HPSI-2	U-HPSI-3
Grain Size (D50)	μm	450	120	500
Packing Density	g/cm ³	1.1	1.2	1.4
Purity	%	> 99.9999		

SiC Powder Particle Distribution



N Concentration in SiC Powder Analysis Using SIMS



High Purity SiC Powder



- ▶ AFSC series fine and high purity SiC powder.
- ▶ Ceramic parts for applications where very low contamination is allowed such as all kinds of vacuum equipment in semiconductor & LED industries.
- ▶ Materials with excellent morphology and particle size distribution for ceramic grinding applications.
- ▶ High purity ultrafine powder suitable for surface coating and porous structure applications.

Typical Characteristics

Product		Unit	AFSC4	AFSC3	AFSC2S	Remarks
Particle Size (D50)		μm	1~6	0.7	0.5	Particle Size by Laser Analyzer
	Elements					
Purity	SiC	%	≧99.99	≧99.90	≧99.00	GDMS
	Al	%	0.001	0.001	0.001	
	Fe	%	0.01	0.05	0.60	
	Ni	%	0.01	0.05	0.05	
	Ca	%	0.001	0.001	0.001	
	Ti	%	0.001	0.001	0.001	
	V	%	0.001	0.001	0.001	
Bulk Density		g/cm ³	0.8	0.4	0.4	Apparent density

