

**CERTIFICATE OF ANALYSIS: 202412280222**

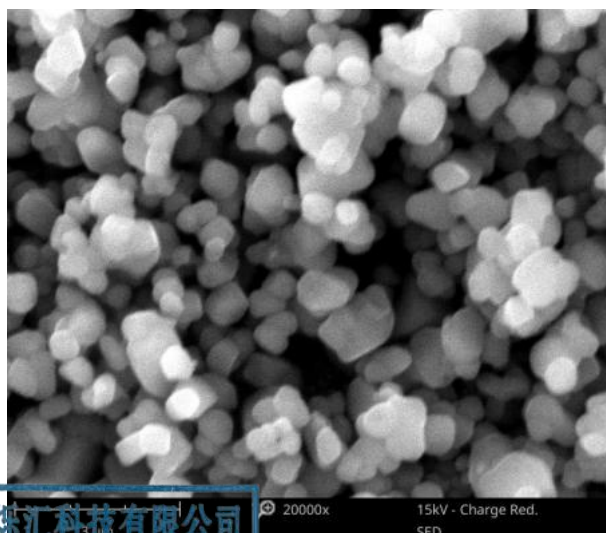
Material Grade	AlN Powder	Product No.	MN-A-1.4
Production Date	2024-12-17	Order No.	VNG-241119
Lot No.	20241217-02	Quantity	100 kg
Process	Carbothermal reduction	Particle Size	1.4 $\mu$ m

**Chemical Compositions / wt%**

Element	Specification	Tested
AlN (XRD phase analysis)	>99.8	99.99
Fe	0.0015 max.	0.0008
Si	0.0025 max.	0.0007
Ca	0.025 max.	0.0214
C	0.04 max.	0.0338
O	0.75-0.85	0.778

**Powder Property**

Particle Size Distribution (Laser analysis)( $\mu$ m)		D10	D50	D95
	Specification		0.59-0.69	1.35-1.45
Tested		0.64	1.43	3.39
SSA ( $m^2/g$ )	Specification	>2.20		
	Tested	2.46		

**SEM Photo:**

**Judgement: Pass**

 Check: Y. Tang  
 Approval: A. Xiao  
 Date: 2024-12-28