Nano Scale
Alpha Alumina Powder

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Product Introduction

Vodek New materials' Nano Alpha Alumina Powder is engineered to meet exacting standards of purity and consistency, it is of vital importance for advanced applications in fields such as semiconductors, special ceramics, electronics ,mechanical manufacturing, power engineering, medical technology and aerospace. Vodek is offering 3N, 4N,4N5 and 5N options,purity level is from 99.9% to 99.999%.This alumina powder features controlled particle size distribution(be fined to 20~150nm), tailored specific surface areas, and minimal impurities, making it ideal for applications requiring high thermal conductivity and electrical insulation properties.

Product Advantage



1. Higher purity, ≥99.99%
2. Unified Crystal type, Alpha conversion rate ≈ 100%
3. Good dispersibility, no melting or agglomeration
4. Particle size distribution is narrow and uniform
5. Stable crystal phase, Excellent Crystal appearance ,pure whiteness

Technical Indicators

Item	Unit			VDK-3N
Al2O3 content	%		≥ 99.9%	
Crystalline phase	α		α-Al2O3	
α conversion rate	%		100	
Appearance			White Powder	
Crystal morphology		Near-Spherical	Flake	Whisker
D50 Particle size	nm	180		
Diameter - Thickness Ratio			20 (500nm:25nm)	
Whisker length - Diameter Ratio				30 (1000~3000nm:20~50nm)
Loose Density	g/cm3		0.3-0.6	
Specific Surface Area	M2/g		30~60	
Impurity(ppm)				
Na	ppm		≤ 20	
Fe	ppm		≤ 50	
Ca	ppm		≤ 30	
Si	ppm		≤ 30	
Cu	ppm		≤ 10	
Mg	ppm		≤ 10	
Example of Applications		Ceramic composite materials (CMCs), Abrasives and refractory materials, Polishing, Battery separator coatings, Precision instruments, Cutting tools, Semiconductors, Sapphire, Glass and LED substrates		

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