



## Shanghai Chenxu Trading Co.,ltd

ADD: Room 531 Building 37 No.,2049 Road,Minhang District,Shanghai,CHINA.201104

Product	4N 99.99% high purity nano alumina
	4N 99.99% high purity nano aluminum oxide
	5N 99.999% high purity nano alumina
	5N 99.999% high purity nano aluminum oxide

**Basic overview:** Nano alumina is an inorganic substance with chemical formula of  $Al_2O_3$  and white crystalline powder  $\alpha$ 、 $\beta$ 、 $\gamma$ 、 $\delta$ 、 $\eta$ 、 $\theta$ 、 $\kappa$  and  $\times$  Eleven kinds of crystals.

Different preparation methods and process conditions can obtain nano alumina with different structures:  $\times$ 、 $\beta$ 、 $\eta$  and  $\gamma$  Type alumina, characterized by porosity, high dispersion and high activity, belongs to activated alumina;  $\kappa$ 、 $\delta$ 、 $\theta$  Type alumina;  $\alpha$ -  $Al_2O_3$ , which has low specific surface area and high temperature resistant inertia, does not belong to activated alumina and has almost no catalytic activity;  $\beta$ -  $Al_2O_3$ 、 $\gamma$ -  $Al_2O_3$  has large specific surface, high porosity, strong heat resistance, good formability, strong surface acidity and certain surface alkalinity. It is widely used as a new green chemical material such as catalyst and catalyst carrier.

**Our company nano alumina description:** 4N 99.99% high purity nano alumina/aluminum oxide is a kind of high purity nano powder made by grinding high purity alumina ball. The product has small particle size, uniform distribution, high purity, high thermal conductivity and high thermal stability



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### Specifications:

4N 99.99% and 5N 99.999% high purity nano alumina/aluminum oxide			
TYPE		CX001	CX001A
Al2O3 Content	%	≥99.99	≥99.999
Phase state		α -Al2O3	α -Al2O3
Appearance		white powder	white powder
L. O. I (%)		≤0.5	≤0.5
Na	ppm	≤15	≤2
Fe	ppm	≤10	≤2
Ca	ppm	≤2	≤2
Si	ppm	≤10	≤1
Cu	ppm	≤2	≤1
Mg	ppm	≤10	≤1
particle size	nm	100-200nm, 300-500nm, according to customer needed	
D50	um	0.3~0.5	0.3~0.5
Apparent Density	g/cm <sup>3</sup>	0.4~0.6	0.4~0.6
Specific Surface Area	m <sup>2</sup> /g	4~15	4~15

**Application:** 4N 99.99% and 5N 99.999% high purity nano alumina was widely used in sapphire crystal polishing, transparent ceramics, high-performance ceramics, precision polishing, integrated circuit boards, various layers and other high-end application fields

**OEM :** We also have other type 4N and 5N high purity nano alumina/aluminum oxide, contact with us for OEM