

5N Nano Alumina

Product Overview

Using the company's high-quality aluminum source as raw material, ultrafine monodisperse precursors are synthesized through the synergistic effect of induced nucleating agents and growth inhibitors, and template agents are introduced to shape the nano-scale alumina crystal morphology. After high-temperature treatment through a unique activation roasting process, nano-scale, highly active customized crystalline alumina is obtained.

Product Main Application

Precision polishing
High-purity alumina ceramic substrate
Aluminum nitride raw materials
High-purity alumina grinding beads

Product Characteristic Index

Product Model	Indicator Parameters		Main impurity content			
	D50 (μm)	Tap Density (g/cm^3)	Si (ppm)	Fe (ppm)	Na (ppm)	Mg (ppm)
A-P-03-G	0.1-0.5	0.9-1.0	≤ 3	≤ 3	≤ 3	≤ 1

Aluminum Nitride Large Particle Thermal Conductive Powder

Product Overview

Low viscosity, narrow particle size distribution, high filling rate and high thermal conductivity.

Product Characteristic Index

Product Model	Particle size (D50)	Bulk Density	0	C
	μm	g/cm ³	%	ppm
N-G-H-02	2.0-2.5	0.35-0.45	< 0.8	< 500
N-G-H-08	7.0-8.0	0.65-0.73	< 0.8	< 500

Aluminum Nitride Spherical Thermal Conductive Powder

Product Overview

High sphericity, good fluidity, narrow particle size distribution, high filling rate

Product Main Application

Thermal grease

Thermal gel

Thermal adhesive

Product Characteristic Index

Product Model	Particle size (D50)	Bulk Density	O	C
	μm	g/cm ³	%	ppm
N-G-H-02	2.0-2.5	0.35-0.45	< 0.8	< 500
N-G-H-08	7.0-8.0	0.65-0.73	< 0.8	< 500

Pseudo Boehmite



Pseudo Boehmite

Product Overview

Pseudo-boehmite is also known as monohydrated aluminum oxide and pseudo-monohydrate soft aluminum oxide. It is a polymer composed of wrinkled flaky aluminum oxide microcrystals and excess bound water. It has high crystal purity, good peptization performance, high adhesion, and the characteristics of thixotropic gel. Pseudo-boehmite colloid can be dispersed into a sol form under the action of a small amount of acid (peptizing agent).

Product Features Advantages

High crystal phase purity

Good peptization performance and high adhesion

Uniform pore size distribution

Product Characteristic Index

Product Model	FCC catalyst	Sulfur-resistant shift catalyst	MTO catalyst	Hydrogenation catalyst	Abrasive
P-G-03	●				
P-D-03	●				
P-DF-03	●	●			
P-DF-03-LS	●	●	●	●	
P-DF-9				●	
P-DF-10				●	
P-DF-03-LD				●	
P-DF-07-HSi				●	
H-β-90				●	
B-D-2	●			●	
A-AG-60					●
A-AG-70					●

Common Pseudo Boehmite

Product Overview

This series of products are non-toxic, tasteless, odorless white colloid (wet product) or powder (dry product), with high crystal purity, good peptization performance, strong adhesion, and the characteristics of thixotropic gel.

Low-sodium pseudo-boehmite can be used as a binder for synthetic rare earth Y-type molecular sieve cracking catalysts, a binder for aluminum silicate refractory fibers, alcohol dehydration catalysts for ethylene and ethylene oxide catalysts, etc. It can also be used as a raw material for activated alumina and other aluminum salts.

Main Uses of The Product

FCC catalytic cracking catalyst

Hydrogenation catalyst carrier

Sulfur-resistant conversion catalyst

Product Characteristic Index

Product Model	Chemical Composition (%)			Physical Properties				
	SiO ₂	Fe ₂ O ₃	Na ₂ O	Ignition loss (%)	Gel index (%)	Alumina trihydrate (%)	Pore volume (ml/g)	Specific surface area (m ² /g)
	(≤)	(≤)	(≤)	(≤)	(≥)	(≤)	(≥)	(≥)
P-G-03	0.30	0.03	0.30	70	95	5	0.3	250
P-D-03	0.30	0.03	0.30	40	95	5	0.3	250
P-DF-03	0.30	0.03	0.30	35	95	5	0.3	250
A-AG-60	0.30	0.03	0.30	40	95	5	0.3	250
P-DF-03-LS	0.30	0.03	0.10	40	95	5	0.3	250

Macro-porous Pseudo Boehmite

Product Overview

This product is a macroporous, medium-density pseudo-boehmite product with high purity, large pore volume, uniform pore size distribution, good fluidity, good molding performance, high strength, good wear resistance, and easy acid dissolution.

Advantages of carbonization products: simple process, low cost, and low S content.

Advantages of neutralization products: concentrated pore volume distribution, and larger pore volume than carbonization.

Main Uses of The Product

Catalysts for hydrocracking, residue hydrogenation, hydrofining, etc.

Important component of fine abrasives and high-temperature adhesives

Product Characteristic Index

Product Model	Chemical Composition (%)			Physical Properties			
	SiO ₂	Fe ₂ O ₃	Na ₂ O	Ignition loss (%)	Alumina trihydrate (%)	Pore volume (ml/g)	Specific surface area (m ² /g)
	(≤)	(≤)	(≤)	(≤)	(≤)	(≥)	(≥)
P-DF-9	1.0	0.04	0.1	35	3	0.85-1.05	250
P-DF-10	1.0	0.04	0.1	35	3	1.0-1.2	280
P-DF-03-LD	1.0	0.03	0.1	35	3	0.5-0.8	250
P-DF-07-HSi	-	0.05	0.1	35	3	0.7-0.9	300
P-HS-05	≤0.6	≤0.04	≤0.1	30	3	0.4-0.6	220
P-HS-06	≤0.6	≤0.04	≤0.1	30	3	0.55-0.8	250
P-HS-07	≤1.0	≤0.04	≤0.1	32	3	0.8-1.0	280
P-HS-09	≤1.2	≤0.05	≤0.1	32	3	≥0.9	280
P-HS-10	≤1.5	≤0.04	≤0.1	35	3	1.0-1.2	300

Bayerite

Product Overview

This product is a high-flow β -Al(OH)₃ powder produced by a special process. The product is not acid-soluble. As one of the components of the catalyst, it has the unique property of reducing the density of acidic active centers.

This product is made into carriers in geometric shapes such as strips, spheres, and special shapes through a molding process. After calcination, a catalyst product with the main crystal phase of η -Al₂O₃ can be obtained, which is used in the field of catalysts with high acidic active centers.

Main Uses of The Product

Dehydrogenation catalyst carrier

Important precursor of η -Al₂O₃

Product Characteristic Index

Project		H-β-90
Chemical Composition (%)		
Fe ₂ O ₃	≤	0.06
Na ₂ O	≤	0.30
SiO ₂	≤	0.15
Ignition loss (%)		33-38
Physical Properties		
D ₅₀ μm		20-30
Specific surface area (m ² /g)	≥	350
Bulk density (g/cm ³)	≥	0.56
β-Al(OH) ₃ (%)	≥	90
α-c·3H ₂ O (% ,XRD)	≤	5
Phase Transition		
320°C	H-β-90→η-Al ₂ O ₃	
900°C	η-Al ₂ O ₃ →θ-Al ₂ O ₃	
1150°C	θ-Al ₂ O ₃ →α-Al ₂ O ₃	