

Fine Powder of Low Sodium Calcined Alumina (Tunnel Kiln)

Alumina Series

Characteristics:

The products have the advantages of high conversion rate, controllable crystal morphology, good thermal shock resistance, stable high temperature performance and stable shrinkage rate of products.

Brands	Chemical component %					α -Al ₂ O ₃ % ≥	BET m ² /g	Particle size μm
	Al ₂ O ₃ ≥	SiO ₂ ≤	Fe ₂ O ₃ ≤	Na ₂ O ≤	L.O.I ≤			
AC-10LS	99.5	0.1	0.04	0.1	0.2	93	4-7	≤1
T1	99.5	0.1	0.04	0.1	0.1	95	1.6-2.0	2.5-3.2
T2	99.5	0.1	0.04	0.1	0.1	95	1.2-1.5	4.0-5.5
T3	99.5	0.1	0.04	0.1	0.1	95	1.3-1.6	3.5-4.5
T4	99.5	0.1	0.04	0.1	0.1	95	1.5-3.5	2.0-3.0

Application:

It is widely used in advanced refractories, structural ceramics, functional ceramics, metal composite ceramics, thermal conductive ceramics and other fields.

AC-10LS is active and easy sintered alumina with low sodium oxide (Na₂O < 0.1%). The main application is: fine ceramic products high purity filler ball high grade refractory material, zirconium aluminum composite ceramics, etc.

T1 series is suitable for slurry extrusion molding, such as ceramic roller, etc. It can also be used for dry pressing, hot pressing and rolling film forming.

T2/T3 series are suitable for dry pressing, hot pressing and rolling film forming.

T4 is suitable for the preparation of spark plugs, electronic ceramic substrate, high voltage or ultra-high voltage lines used as insulating materials and other electronic industries.



Alumina Series

Ordinary Calcined Alumina

1

Ordinary Calcined Alumina

Characteristics:

Using high quality aluminum hydroxide raw materials, the rotary kiln is used to calcinate at reasonable calcination temperature. It has the advantages of high conversion rate, crystal stability, high mechanical strength, stable shrinkage rate, wear resistance, corrosion resistance and high temperature resistance.



Application:

Various abrasives, abrasives and various wear-resisting filler, various ceramic and refractory alumina micro powder.

Brands	Chemical component %					α-Al ₂ O ₃ % ≥	Effective density ≥	Primary crystal size μm
	Al ₂ O ₃ ≥	SiO ₂ ≤	Fe ₂ O ₃ ≤	Na ₂ O ≤	L.O.I ≤			
AC-30	99.0	0.10	0.04	0.5	0.20	94	3.93	4±1
AC-30-A	99.0	0.10	0.04	0.5	0.20	93	3.93	2.5±1

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Ordinary Fine Powder of Calcined Alumina

Characteristics:

good sintering performance, stable line shrinkage, narrow particle size and grain size distribution.

Application:

refractories, refractory binder, alumina ceramics, glass raw materials, polishing raw materials.



Brands	Chemical component %					α-Al ₂ O ₃ % ≥	Particle size μm
	Al ₂ O ₃ ≤	SiO ₂ ≤	Fe ₂ O ₃ ≤	Na ₂ O ≤	L.O.I ≤		
ACG-2A	99.0	0.20	0.04	0.5	0.25	93	3-5

The particle size can be tailor-made.

Low Sodium Calcined Alumina (Rotary Kiln)

Alumina Series

1

Low Sodium Calcined Alumina

Characteristics:

With high quality raw materials and advanced production technology, the products have the advantages of low sodium oxide, high conversion rate and fine particle morphology.

Application:

All kinds of abrasives, abrasives and various wear-resisting filler, various ceramic and refractory alumina micro-powder, high purity structure ceramics, electronic components, high frequency insulating porcelain.



Brands	Chemical component %					α -Al ₂ O ₃ % ≥	Effective density ≥	Primary crystal size μ m
	Al ₂ O ₃ ≥	SiO ₂ ≤	Fe ₂ O ₃ ≤	Na ₂ O ≤	L.O.I ≤			
AC-200MS	99.0	0.10	0.04	0.2	0.2	93	3.93	2.5±1
AC-300MS	99.0	0.10	0.04	0.2	0.2	94	3.93	4±1

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Fine Powder of Low Sodium Calcined Alumina

Characteristics:

High purity, high thermal stability, reasonable particle size distribution, good uniformity.

Application:

High-grade refractory materials, high-grade ceramic products, electronic ceramics, functional ceramics, etc.



Brands	Chemical component %					α -Al ₂ O ₃ % ≥	Particle size μ m
	Al ₂ O ₃ ≥	SiO ₂ ≤	Fe ₂ O ₃ ≤	Na ₂ O ≤	L.O.I ≤		
ACG-200MS	99.0	0.1	0.04	0.2	0.2	92	1-2
ACG-300MS	99.0	0.1	0.04	0.2	0.2	93	3-5

The particle size can be tailor-made.

High Purity Alumina (HPA)

Alumina Series

Characteristics:

Stable quality, high alumina content, low content of impurity elements.

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HPA for Synthetic Sapphire

Application:

Special material for long crystal LED sapphire



Brands	Al ₂ O ₃ (%)	Si ppm	Fe ppm	Na ppm	Ca ppm	Mg ppm	Cu ppm	Cr ppm	Ti ppm	Particle size D50(μm)
A-HP-9999γ1	99.995	15	1	15	3	1	1	2	1	40±2
A-HP-9999α1	99.995	15	1	15	3	1	1	2	1	40±2

2

Superfine HPA

Application:

Tricolor phosphors, long afterglow phosphorescence, high pressure sodium lamp.

Brands	Al ₂ O ₃ (%)	Si ppm	Fe ppm	Na ppm	Ca ppm	Mg ppm	Cu ppm	Cr ppm	Ti ppm	Particle size D50(μm)
A-HP-9999γ2	99.995	15	1	15	3	1	1	2	1	1.5-3.5
A-HP-9999α2	99.995	15	1	15	3	1	1	2	1	3.0-5.0

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HPA for Battery

Application:

Battery anode coating, doped lithium ion battery or coating, inorganic filler gel electrolyte, ceramic membrane sodium sulfur batteries, lithium-ion batteries, etc
Lithium ion batteries or coating, inorganic filler gel electrolyte, ceramic membrane sodium sulfur batteries, lithium-ion batteries, etc.

Brands	XRD	BET m ² /g	Al ₂ O ₃ % ≥	Fe ppm ≤	Na ppm ≤	Ca ppm ≤	Particle size D50(μm)
SLA4-40R	γ	≥50	99.99	10	50	10	40±5
SLA4-40A	α	≤5	99.99	10	50	10	40±5
SLA35-20A	α	≤5	99.95	50	150	150	20±5
SLA3-40A	α	≤5	99.90	50	250	150	40±5

Alumina Series

Commercial Alumina

1

SG Commercial Alumina

Characteristics:

Moderate particle size, good fluidity, light flying, strong adsorption and low impurity content.

Application:

Electrolytic aluminum, calcined alumina raw material, ceramic, glaze, corundum raw material, glass industry, pure aluminate cement, etc.



Brands	Chemical component%				
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Na ₂ O	L.O.I
AO-1	≥98.5	≤0.04	≤0.02	≤0.6	≤1.0

2

Low Sodium Alumina

Characteristics:

Low impurity content, high chemical stability and high resistivity; After calcination, heat resistance, good thermal conductivity, hardness, mechanical light height.

Application:

Calcined alumina, fused corundum, electronic components, functional ceramics, abrasive.



Brands	Chemical component%					Moisture%
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Na ₂ O	L.O.I	
A-LS-1	≥98.5	≤0.015	≤0.008	≤0.10	≤1.0	25
A-LS-2	≥98.5	≤0.015	≤0.008	≤0.15	≤1.0	25