玉发集团
YUFA GROUP

LOW SODIUM ALUMINA (CA) SERIES FOR CERAMICS

Model No.	Chemical Composition					True Density	Apparent Density	Grain Size D_{50}	+325 Mesh	Original Crystal D_{50}	Features	Recommend Applications
	Al_2O_3 ≥%	SiO_2 ≤%	Fe_2O_3 ≤%	Na_2O ≤%	LOI ≤%	g/cm^3 ≥	g/cm^3 >	D_{50} (μm)	<%	D_{50}(μm)		
CA1A	99.7	0.05	0.02	0.08	0.1	3.97	>0.95	~70	\	5.0±0.3	• High temperature calcination • Low Na_2O • Large crystal • High conversion rate • Stable shrinkage. • Good fluidity • High insulation performance, • High mechanical strength	High-performance ceramics, such as vacuum tubes. Especially suitable for hot -pressing casting process
CA1D	99.7	0.05	0.02	0.06	0.1	3.95	>0.90		\	4.3-4.7	• Low Na_2O • Moderate crystal size. • Good particle size distribution • Small shrinkage and stability	Spark plugs, vacuum tubes, wear-resistant ceramics, etc. More suitable for static pressure, dry-press and other forming processes
CA1	99.7	0.05	0.02	0.05	0.1	3.95	>0.90		\	4.2-4.8	• Calcined in static kiln • Low Na_2O • Moderate crystal size • Good particle size distribution • High ceramic density	Mainly used in electronic ceramics. Especially suitable for Hot die casting process

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Model No.	Chemical Composition					True Density	Apparent Density	Grain Size D_{50}	+325 Mesh	Original Crystal D_{50}	Features	Recommend Applications
	Al_2O_3 ≥%	SiO_2 ≤%	Fe_2O_3 ≤%	Na_2O ≤%	LOI ≤%	g/cm^3 ≥	g/cm^3 >	D_{50} (μm)	<%	D_{50}(μm)		
CA2D	99.7	0.06	0.02	0.06	0.1	3.95	>0.8	~70	\	3.0-3.5	• Low Na_2O • Boron-free • Smaller crystals • Uniform particle size • Less shrinkage	IC substrates, spark plugs, vacuum tubes, wear-resistant ceramics, etc. Suitable for Tap casting, Sliping, Isostatic pressing, Dry pressing and other molding processes
CA2	99.7	0.08	0.02	0.04	0.1	3.96	>0.9	~70	\	3.85-4.15	• Low Na_2O • Strict crystal size control • Good fluidity • Stable shrinkage	Electronic ceramics, structural ceramics. Especially suitable for Hot die casting process
CA2G	99.6	0.15						3.5-3.8	<3.0	3.4-3.6	• Fully grinding • Particle size control stability • Low Na_2O • Shrinkage stability	Electronic ceramics, structural ceramics. More suitable for making ceramic rollers

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Model No.	Chemical Composition					True Density	Apparent Density	Grain Size D_{50}	+325 Mesh	Original Crystal D_{50}	Features	Recommend Applications
	Al_2O_3 ≥%	SiO_2 ≤%	Fe_2O_3 ≤%	Na_2O ≤%	LOI ≤%	g/cm^3 ≥	g/cm^3 >	D_{50} (μm)	<%	D_{50}(μm)		
CA3D	99.7	0.06	0.02	0.06	0.1	3.95	>0.8	~70	\	2.5-3.0	• Low Na_2O • Boron-free • Smaller crystals • Uniform particle size • Stable shrinkage	IC substrates, spark plugs, wear-resistant ceramics, etc. Suitable for Tap casting, Sliping, Isostatic pressing, Dry pressing and other molding processes
CA3	99.7	0.05	0.02	0.04	0.1	3.96	>0.85	~70	\	2.2-2.6	• Strict control of calcinating temperature • Smaller crystal size • Good particle distributio • Uniform particle distribution • Pretty-low sodium	Suitable for electronic ceramics products, such as IC substrates
CA3G		0.1						2.3-2.7	<1.0		• Fully grinding of CA3	

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Model No.	Chemical Composition					True Density	Apparent Density	Grain Size D_{50}	+325 Mesh	Original Crystal D_{50}	Features	Recommend Applications
	Al_2O_3 ≥%	SiO_2 ≤%	Fe_2O_3 ≤%	Na_2O ≤%	LOI ≤%	g/cm^3 ≥	g/cm^3 >	D_{50} (μm)	<%	D_{50}(μm)		
CA4	99.7	0.05	0.02	0.06	0.1	3.93	>90	~70	\	1.0-1.8	• Good activity • Low Na_2O • High density after calcination • Stable shrinkage • High mechanical strength	Structural ceramics, electronic ceramics. 99 ceramic granulation powder material, also suitable for extrusion molding process
CA4G		0.1					>0.60	1.5-2.2	<1.0		• Fully grinding of CA4	
CA5	99.7	0.05	0.02	0.05	0.1	3.92	\	~70	\	<1.0	• Small and uniform crystal size • High activity	99 ceramic hot die casting process, etc
CA5G								1-1.3	<1.0		• Fully grinding • Small crystals • Good activity • Uniform crystal size • Narrow particle size distribution	Ceramic filter,etc

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Model No.	Chemical Composition					Moisture Content	Particle size characteristic value (μm)				BET (m^2/g)	pH
	Al_2O_3 ≥%	Fe_2O_3 ≤%	K_2O ≤%	Na_2O ≤%	CaO ≤%	≤%	D_{10}	D_{50}	D_{90}	D_{99}		
CX-01	99.7	0.015	0.005	0.1	0.02	0.5	0.2	0.4-0.6	1.4	1.8	12-15	6-9
CX-02	99.7	0.02	0.005	0.08	0.02	0.5	0.3	0.6-0.8	1.5	1.9	10-13	6-9
CX-03	99.7	0.02	0.005	0.08	0.02	0.5	0.6	0.8-1.0	1.6	2	8-11	6-9

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