



CERALOX[®]

CRYSTAL GROWTH APPLICATIONS

Typical CHEMICAL ANALYSIS

Product	Typical Al ₂ O ₃ Purity	Trace Impurities, ppm				Crystal Structure	Powder Form
		Na	Si	Fe	Ca		
UHPA Gamma	99.999%	<1	2	1	<1	Gamma	Spherical
UHPA Alpha	99.999%	<1	4	2	<1	Alpha	Spherical
UHPA Alpha Milled	99.998%	1	2	2	<1	Alpha	Milled
UHPA-PKAC	99.999%	1	2	2	<1	Alpha	Granular
UHPA-AC2	99.998%	1	5	2	<1	Alpha	Granular
UHPA-HDG	99.998%	<1	2	<1	<1	Alpha	Granular
UHPA HDC	99.998%	3	6	3	3	Alpha	Ceramic

Typical PHYSICAL PROPERTIES

Product	Surface Area, m ² /g	Loose Bulk Density, g/l	Median Particle Diameter, D-50, μm
UHPA Gamma	150	720	35-40
UHPA Alpha	4	1000	35-40
UHPA Alpha Milled	8	950	<1
UHPA-PKAC	<4	1100	Granular Size, mm: 1-3
UHPA-AC2	<0.5	1700	Granular Size, mm: 1-3
UHPA-HDG	<0.01	2000	Granular Size, mm: 1-3
UHPA-HDC	na	>3200*	Nominal 60 or 110mm

*Sintered density

METHODOLOGY

Chemical Analysis: Inductively Coupled Argon Plasma
Particle Size Distribution: Malvern Laser Diffraction
Surface Area: B.E.T. Micromeritics Gemini