

CERALOX UHPA ALUMINA CRYSTAL GROWTH APPLICATIONS



SASOL

Typical chemical properties

Product	Al ₂ O ₃ purity	Primary impurities (ppm)				Crystal structure	Powder form
		Na	Si	Fe	Ca		
UHPA – Gamma	99,999 %	<1	2	1	<1	γ - Gamma	Spherical
UHPA – Alpha	99,999 %	<1	2	2	<1	α - Alpha	Spherical
UHPA – Alpha - Milled	99,998 %	1	5	2	1	α - Alpha	Milled
UHPA – AC2	99,998 %	1	5	2	<1	α - Alpha	Granular
UHPA – HDG	99,999 %	<1	2	<1	<1	α - Alpha	Granular
UHPA – HDC	99,998 %	3	6	3	3	α - Alpha	Ceramic*

* UHPA – HDC is a Ceramic Monolith available in multiple sizes

Typical physical properties

Product	Surface area (m ² / g)	Loose bulk density (g / l)	Median particle diameter
UHPA – Gamma	150	720	35 – 40 μm
UHPA – Alpha	4	1000	35 – 40 μm
UHPA – Alpha - Milled	8	950	<1 μm
UHPA – AC2 [†]	<0.5	1700	Granular size 1 – 3 mm
UHPA – HDG	<0.01	2000	Granular size 1 – 3 mm
UHPA – HDC	na	>3200 [‡]	Nominal Ø 55 mm or 110 mm

[†] Surface area can be modified to meet customer specification

[‡] Sintered density

Methodology

- Chemical analysis: Leeman Labs Inductively Coupled Argon Plasma
- Particle size distribution: Horiba® Laser Diffraction
- Surface area: B.E.T. Micromeritics® Gemini

CONTACT INFORMATION

For technical information or samples please contact: Ceraloxcs@us.sasol.com

Sasol Chemicals North America LLC - CERALOX

7800 South Kolb Road - Tucson, Arizona 85756

Telephone 520-294-5201

Facsimile 520-294-5208

Toll Free: 800-874-6688 (in U.S.)

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