

CMA[®] CONTROLLED MORPHOLOGY ALUMINA

Characteristics

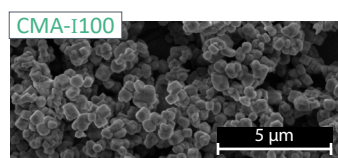
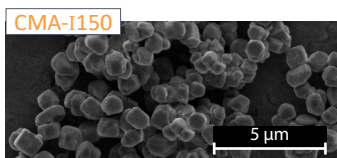
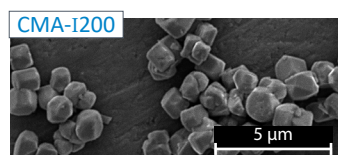
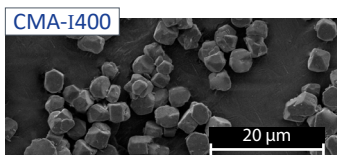
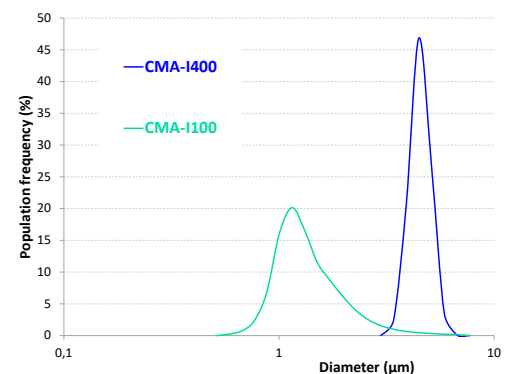
Standard CMA [®] products (Typical values)		CMA-I400	CMA-I200	CMA-I150	CMA-I100
Crystalline phase (%)		100% α			
Specific Surface Area (m ² /g) BET		0.7	1.8	2.0	3.1
PSD (μ m)	d ₅₀	4.0	2.0	1.5	1.0
Bulk Density (g/cm ³)		1.0	0.7	0.6	0.6
Tapped Density (g/cm ³)		1.9	1.3	1.2	1.0
Elemental Analysis (ppm) ICP	Na	14	14	14	14
	Si	350	250	150	150
	Fe	4.0	4.0	4.0	4.0
	Ca	40	40	44	42
	K	15	15	15	15

> CMA[®] Controlled Morphology Alumina characteristics include all the Baikalox[®] specifications, plus:

- Shape and Morphology control: **Icosahedral form**
- Monomodal distribution
- Range of mean particle size from 0.5 to 5 μ m
- High crystallinity
- Low viscosity



> Particle Size Distribution



Applications

> CMA[®] range has a **high sintering reactivity at low temperature** thanks to its high tapped density, icosahedral form and its tight PSD.

It enables **maximized powder stacking** by reducing intergranular spaces.

Thus, **the porosity** of your ceramic parts and your coatings can be **well controlled**.



Baikowski[®] can also design CMA[®] upon request with other shapes, close to ideal structures:

- Spherical (CMA-S)
- Ellipsoidal (CMA-E)



Your solution partner for fine minerals



Baikowski® 

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Baikowski® SA
France | Poisy | ☎ +33 4 50 22 69 02

Mathym® SAS
France | Lyon | ☎ +33 4 78 83 72 93

Baikowski® Malakoff Inc.
USA | Malakoff (TX) | ☎ +1 903-489-1910

Baikowski® International Corp.
USA | Charlotte (NC) | ☎ +1 704-587-7100

www.baikowski.com
sales@baikowski.com



Follow us:    

Sales Representative in China
China | Shanghai | ☎ +86 21.6289.2883

Baikowski® Korea Co, Ltd.
Korea | Seoul | ☎ +82 255.281.97

Baikowski® Japan Co, Ltd.
Japan | Chiba | ☎ +81 474.73.8150

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