

Calcined Alumina

Description: Calcined and reactive alumina micro-powders are high-purity α -Al₂O₃ materials designed for shaped and monolithic refractories. Calcined grades support particle packing, low water demand and volumetric stability, while reactive grades provide controlled reactivity, flowability and strength development in castable systems.

Product Descriptions

Calcined Alumina	Reactive Alumina
High-purity alumina material produced by calcining alumina at high temperatures to form stable α -alumina. It features high hardness, excellent refractoriness, chemical stability, and wear resistance. It is widely used in refractory materials, ceramics, abrasives, polishing compounds, precision casting, electronic ceramics, and other high-temperature industrial applications.	Fine-particle alumina designed for advanced refractory applications. Its high surface area and controlled particle-size distribution promote efficient sintering and the development of a dense, strong microstructure at lower firing temperatures. It is widely used in low-cement and ultra-low-cement refractory castables, high-alumina bricks, ceramic components, polishing materials, and other high-performance refractory and ceramic products.

Chemical & Physical Properties

Category	Code	Na ₂ O (%)	Fe ₂ O ₃ (%)	MgO (%)	SiO ₂ (%)	CaO (%)	BET (m ² /g)	D50 (μm)	D90 (μm)
Calcined	CA	0.06	0.02	0.01	0.04	0.02	0.85	4.8	11.3
Calcined	CA-D	0.12	0.04	0.02	0.06	0.02	0.93	5.2	22.7
Calcined	CA-B	0.04	0.04	0.01	0.05	0.02	1.28	3.7	9.2
Reactive	RA-SG	0.05	0.03	0.04	0.03	0.03	3.30	0.95	2.40
Reactive	RA-BM	0.14	0.02	0.01	0.05	0.02	2.86	2.01	8.91
Reactive	RA-BL	0.04	0.03	0.02	0.07	0.03	3.71	1.12	2.80
Reactive	RA-B	0.25	0.02	0.01	0.04	0.02	1.90	2.10	8.50
Reactive	RA-12D	0.18	0.04	0.02	0.06	0.02	2.30	2.00	8.20

Product Information

Size	D50, D90 adjustment upon request.
Packing	In 1.00 MT, 1.25 MT or 1.35 MT bulk bags; 25/50 kg bags in bulk bags or on wrapped pallets.
Origin	Shandong Province, China.