

Certificate of Analysis-Compact Fused Alumina

General Information

Product	: Compact Fused Alumina for Refractories
Other Names	: Dense Fused Alumina, High Density Fused Alumina
Country of Origin	: China
Manufacturer of Material	: Luoyang Zhongsen Refractory Co.,Limited
Features	: High Refractory Temperature, High Density, Low Porosity
Picture of Product:	



Manufacturing Process & Applications

Compact Fused Alumina is made of High Purity Alumina Powder(Aluminium Oxide) and Reducer/Deoxidizer melted in electric arc furnace under high temperature. The materials are fused, cooled down, crushed and milled into various sizes for different refractory applications. Featuring High Content of Aluminium Oxide(Al_2O_3 96%min), Low Porosity(4%max), Acid & Alkali Resistance, Wear Abrasion Resistance, Good Volume Stability under high temperature, Compact Fused Alumina is a high grade refractory raw material among artificial corundum products, widely used in metallurgical, steel making, petrochemical, ceramic, glass, cement and building industries, mainly used as refractory ramming mass of blast furnace tapping launder,the castable filling,as well as good materials for the producing steel elongated nozzle,sliding plate and the varieties of corundum bricks.



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Physical Specifications & Package

Main Content	: α -Al ₂ O ₃
Specific Gravity	: ≥ 3.90 g /cm ³
Hardness	: ≥ 9 MOSH
Color	: Light Brown, Grey
Melting Point	: 2350°C
Linear Expansion Coefficient	: 7-9 under 0-1600°C
Magnetic Contents	: $\leq 0.005\%$
Porosity	: $\leq 2\%$, typically 0.8%
Sizes Available	: 0-1mm, 1-3mm, 3-5mm, 5-8mm, 8-12mm, 0-0.2mm, 0.2-0.5mm, 0.5-1mm, 100mesh, 200mesh, 325mesh, other finer powder etc
Package	: Jumbo Bag, 25kg Bag and 40 Bags on a Pallet

Particle Distribution & Chemical Content

Physical Analysis	Grit#	Maximum Size	Big Size	Basic Size	Mixed Size	Small Size	Magnetic Contents	$\leq 0.005\%$
	0-1mm	0	7				Porosity	$\leq 2\%$
	1-3mm	0	6			3	Specific Gravity	≥ 3.90 g /cm ³
	3-5mm	0	5			2.5	Hardness	≥ 9 MOSH
	5-10mm	0	8			3	Linear Expansion Coefficient	7-9 under 0-1600°C
Chemical Analysis	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Na ₂ O	MgO	C
	$\geq 99\%$	$\leq 1\%$	$\leq 0.15\%$	$\leq 0.1\%$	$\leq 0.1\%$	$\leq 0.1\%$	$\leq 0.1\%$	$\leq 0.15\%$

Other Sizes Available on Request: 0-0.1mm, 0-0.2mm, 0-0.5mm, 0.5-1mm, 100mesh, 200mesh, 325mesh etc