

Certificate of Analysis-Tabular Alumina

General Information

Product	: Tabular Alumina for Refractories
Country of Origin	: China
Manufacturer of Material	: Luoyang Zhongsen Refractory Co., Limited
Features	: Good Al ₂ O ₃ Crystal Shape, High Purity, Volume Stability
Picture of Product:	



Manufacturing Process & Applications

Tabular Alumina is a type of sintered calcined alumina with alpha aluminium oxide (α -Al₂O₃) more than 99%. It is a high temperature resistant, corrosion resistant, heat shock resistant, high strength, chemically stable material. It is produced in high temperature, which makes its alpha aluminium oxide grow into big grains. Properties are primarily those of alpha alumina with a purity of 99.8%: refractoriness, hardness, chemical inertness, thermal conductivity and dielectric rigidity at high temperature. It also has ceramic properties: high density, low open porosity, dimensional stability, creep and abrasion resistance, exceptional resistance to thermal shock, a surface coarseness which gives good bonding with matrices, and reproducible particle size distribution. These properties explain its development as a refractory raw material, and its use in steel making and in electric furnaces, especially in Japan. It can be used in ceramics as filters for molten metal, fillers for epoxy resins and polyester, inert catalyst supports and heat conductors. There is substantial demand for Tabular alumina: in excess of 500 000 Tpa.



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Physical Specifications & Package

Main Content	: α -Al ₂ O ₃
Specific Gravity	: ≥ 3.50 g /cm ³
Hardness	: ≥ 9 MOSH
Color	: White
Melting Point	: 2350°C
Linear Expansion Coefficient	: 7-9 under 0-1600°C
Loss on Ignition(LOI)	: $\leq 1.5\%$
Porosity	: $\leq 5\%$
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	Loss on Ignition	$\leq 1.5\%$
	0-1mm	0	7				Porosity	$\leq 5\%$
	1-3mm	0	6			3	Specific Gravity	≥ 3.50 g /cm ³
	3-5mm	0	5			3	Hardness	≥ 9 MOSH
	5-10mm	0	7			2.5	Linear Expansion Coefficient	7-9 under 0-1600°C
Chemical Analysis	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Na ₂ O				
	$\geq 99\%$	$\leq 0.3\%$	$\leq 0.2\%$	$\leq 0.4\%$				

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