

# BROWN FUSED ALUMINA

## Product Information



### BFA used for Refractories Application

Brown Fused Alumina (also named as Brown Aluminum Oxide) is produced from high quality Bauxite, Coal, Iron chip being fused at high temperature in an electric arc furnace.

It's a tough, hard material (Mohs hardness 9) with high strength, excellent wear and corrosion resistance. It has good thermal conductivity and outstanding chemical stability at extraordinary high temperatures. So it's an ideal materials to make shaped and unshaped refractory products in fire-proof, precision casting, foundry and coating industries.; glass and advanced ceramics , Refractory cement products. It's also widely used in-steel and foundry industry, petrochemicals, laminates and other high-level furnace refractories applications.



### Different Melting and Process Methods

We can produce BFA in tilting furnace or fixed furnace, BFA produced in the tilting furnace has the advantage of high bulk density and low porosity, thus the chemical stability and thermal shock resistance can be improved. For normal refractory purposes, Fixed Furnace BFA is enough.

BFA can be crushed and milled by Barmac Mill, Ball Mill or Roller Mill. BFA milled by Barmac equipment is granted more round shape grits and higher bulk density. Refractory products made of it have higher density and strength, and also less cracking risk.

### Physical Properties

Color	:	Brown or Grey
Friability	:	Semi-friable
Melting Point	:	2250°C
Bulk Density	:	1.50-2.10g/cm <sup>3</sup>
True Density	:	3.95g/cm <sup>3</sup> Min
Mohs Hardness	:	9.0
Knoop (100) Hardness	:	2100kg/mm <sup>2</sup>

### Chemical Composition

Chemical Composition (% , by weight) \* Custom chemistry is available upon request.

Grade	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>
A-R	95.0%Min	≤1.50	≤0.30	≤3.80
	92.0%Min	≤2.50	≤0.40	≤4.00

	90.0%Min	≤3.00	≤0.60	≤4.00
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### Available Grit Sizes

We offer BFA in segment size, group size or fine powder to match refractory products usage, complying with the current FEPA / JIS / ANSI sieve standards.

Macro sizes : 0-1mm, 0.5-1mm, 1-2mm, 1-3mm, 2-3mm,3-5mm, 5-8mm, 0-10mm,0-25mm...

Fine powder:

0-0.1 mm, 0-0.2mm,0-0.35mm,0-0.5mm,0.1-0.5mm,0.2-0.5mm.

-200mesh, -240mesh, -325mesh.

Noted :Custom sizes and shaped are also available upon request

### Packaging

Standard Packaging:

- Big bags(1000kgs , 1250kgs, 1350kgs) with or without pallets;

- 20 or 25kg plastic.or paper bags, with or without pallets.

\*Custom Packaging is available upon request.



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