

# BROWN FUSED ALUMINA

## Product Information



### BFA Description

Brown Fused Alumina (also named as Brown Fused Aluminum Oxide) is produced from high quality Bauxite, Coal, Iron chip by being fused at high temperature in an electric arc furnace. It's a tough, hard material (Mohs hardness 9.0) with strong self-sharpening, high strength, excellent wear and corrosion resistance; it has good thermal conductivity and outstanding chemical stability at very high temperature, which makes it an ideal Abrasive & Refractory materials used in many applications.



We manufacture BFA in tilting furnace or fixed furnace, Tilting Furnace BFA has higher Al<sub>2</sub>O<sub>3</sub> content, lower impurities and high-performance.

BFA can be crushed and milled by Barmac Mill, Ball Mill or Roller Mill. BFA milled by Barmac equipment is granted more round shape and higher bulk density. It has higher density and strength, and less opportunity to have cracks.

### Data Sheet

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>

### Available Grit Sizes

We offer BFA in Macro and Micro grains complying with the current FEPA / JIS / ANSI sieve standards.

#### For Bonded Abrasives Application:

##### FEPA F

Macro :F12, F24, F30, F36, F40, F46, F54, F60, F80, F100, F120, F150, F180, F220

Micro: F240, F280, F320, F360, F400, F500, F600, F800, F1000, F1200

#### For Coated Abrasives Application:

##### FEPA P

Macro :P24, P30, P36, P40, P50, P60, P80, P100, P120, P150, P180, P220

Micro:P240, P280, P320, P360, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500

##### JIS

JIS240, JIS280, JIS320, JIS360, JIS400, JIS500, JIS600, JIS700, JIS800, JIS1000, JIS1200, JIS1500, JIS2000, JIS2500, JIS3000, JIS4000, JIS6000, JIS8000

#### For Refractories Application:

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 shapes are also available upon request.

### Chemical Composition

Type &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> (%)	CAO(%)	
A-F	F12-F220	AL-96	≥96.50	≤0.80	≤0.15	≤3.50	≤0.25
		AL-95	≥95.00	≤1.50	≤0.30	≤3.80	≤0.40
		AL-90	≥90.00	≤3.00	≤0.45	≤4.00	≤0.60
	F240-F1200		≥93.50	≤1.50	≤0.30	≤3.80	≤0.40
A-P	P12-P220	AL-95	≥95.00	≤1.50	≤0.30	≤3.80	≤0.40
	P240-P2500		≥93.50	≤1.50	≤0.30	≤3.80	≤0.40
A-R	0-1MM, 1-3MM 3-5M...	AL-96	≥96.00	≤1.00	≤0.15	≤3.80	≤0.40
		AL-95	≥95.00	≤1.50	≤0.30	≤3.80	≤0.40
		AL-92	≥92.00	≤2.50	≤0.40	≤4.00	≤0.60
		AL-90	≥90.00	≤3.00	≤0.60	≤4.00	≤0.80
	-200Mesh -325Mesh...		≥94.50	≤1.50	≤0.30	≤3.80	≤0.40

### 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.

### Application

-Bonded abrasives (grinding wheels, cutting discs ...)

-Coated abrasives (sanding paper, sanding belt,surface preparation...)

-Lapping, polishing, sandblasting media

-Anti-skid flooring,

-Brake and friction linings

-Shaped & unshaped refractory products used in fire-proof, precision casting, steel , foundry industries.

-Glass, advanced ceramics products & refractory cement industry

-Other applications: like petrochemicals, laminates and other high-level furnace refractories, and hundreds of other application.

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