

# Brown Fused Alumina Abrasive

Brown fused alumina is a hard, wear-resistant abrasive material. It is used for sandblasting, grinding, and polishing of metals, ceramics, and other materials.



## ADDITIONAL IMAGES



## Product Overview

### High-Performance Brown Fused Alumina

Brown Fused Alumina (BFA) is a high-purity abrasive material produced by fusing bauxite in an electric arc furnace. Renowned for its exceptional hardness, toughness, and wear resistance, this material is ideal for demanding industrial applications including sandblasting, grinding, polishing, and lapping. Its angular grain shape ensures aggressive cutting action, while its chemical inertness and thermal stability provide reliable performance in both wet and dry processes.

## Physical Properties

Mohs Hardness	9 Mohs
Melting Point	2250 °C
Bulk Density	1.53-1.99 g/cm <sup>3</sup>
True Density	3.9 g/cm <sup>3</sup>

## Chemical Composition

### Chemical Composition Limits

Component	Limit
Al <sub>2</sub> O <sub>3</sub>	95.0% Min
Fe <sub>2</sub> O <sub>3</sub>	0.30% Max
SiO <sub>2</sub>	1.50% Max

## Sizing and Standards

### Available Particle Sizes

- Fractions: 12-5mm, 8-5mm, 5-3mm, 3-1mm, 1-0mm, 1-0.5mm, 0.5-0mm, 0.3-0mm
- Grit: F8-F220
- Fine: 150mesh-0, 180mesh-0, 240mesh-0, 280mesh-0, 320mesh-0
- Micro Powder: F230-F2000
- JIS: 240-10000

### Compliance Standards

FEPA, JIS, GB, P

## Logistics

### Packing

25kg PVC bags + 1MT big bag

## Applications

### Primary Applications

Sandblasting • Grinding • Polishing • Surface Preparation • Refractory Material • Deburring • Descaling