

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 ³
True Density	3.9 g/cm ³

Chemical Composition

Chemical Composition Limits

Component	Limit
Al ₂ O ₃	95.0% Min
Fe ₂ O ₃	0.30% Max
SiO ₂	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