



BROWN FUSED ALUMINA |

| INTRODUCTION

Brown Fused Alumina, also known as electrocorundum, corundum, or aluminum oxide, is a mineral obtained by fusing bauxite in an electric arc furnace. Its primary component is alumina (Al_2O_3). It is an ecologically clean and extremely hard material.

Brown Fused Alumina is widely used as a raw material in refractories, ceramic shapes, grinding wheels, sandpaper, blasting media, metal preparation, laminates, coatings, lapping, polishing, grinding, and many other applications. Our brown fused alumina grains and powders are available in standard grit and powder sizes and can also be customized to meet individual specifications. Micro-sodium mullite is mainly used in mullite firing plates, precision casting, high-quality refractory materials and other fields. Our company can produce various specifications of granules and fine powder according to customer needs.

| AVAILABLE GRAIN SIZES

For Abrasives: F8–F220, F230–F1200, P8–P220, or customized according to customer requirements.

For Refractories: 0–1 mm, 1–3 mm, 3–5 mm, -200 mesh, 325 mesh, or customized as per customer requirements.

| APPLICATION - REFRACTORY MATERIALS

- ▣ **Abrasives:** Used in grinding wheels, sandpaper, blasting media, polishing compounds, and coated abrasives.
- ▣ **Refractories:** A key raw material for high-performance refractory bricks, castables, and kiln furniture.
- ▣ **Surface Treatment:** Ideal for sandblasting, rust removal, and surface preparation in metalworking applications.
- ▣ **Lapping & Polishing:** Used for precision polishing in the automotive and electronics industries.



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| CHEMICAL COMPOSITION

Chemical Composition of Common Brown Fused Alumina	
Chemical Composition	Common Value
Al ₂ O ₃ %	95
SiO ₂ %	1.5
Fe ₂ O ₃ %≤	0.3
CaO %≤	0.5
TiO ₂ %≤	3
Magnetic Subsatnce %≤	0.05
Hardness	9 Mosh
Bulk Density g/m ³ ≥	1.5-1.9 (Depends on grain size)
Specific Gravity g/m ³ ≥	3.9-3.95
Melting Point	2050 °C