

# White Fused Alumina Abrasive Powder

White fused alumina powder is used in refractory applications. This abrasive material is suitable for use in bonded abrasives, coated abrasives, and loose abrasive processes.



## Product Overview

### High-Purity White Fused Alumina

White Fused Alumina, also known as white corundum, is manufactured from high-quality alumina melted at temperatures exceeding 2000°C in an electric arc furnace. With a primary crystal phase of alpha-Al<sub>2</sub>O<sub>3</sub>, this material provides exceptional hardness and thermal stability. It is a chemically inert abrasive ideal for high-precision industrial applications including refractories, grinding, and surface finishing.

## Chemical Composition

### Chemical Analysis

Component	Section Sand (Min/Max)	Fine/Macro Powder (Min/Max)
Al <sub>2</sub> O <sub>3</sub>	99.5% min	99.0% min
Fe <sub>2</sub> O <sub>3</sub>	0.04% max	0.20% max
Na <sub>2</sub> O	0.30% max	0.40% max
SiO <sub>2</sub>	0.02% max	0.05% max

## Physical Properties

### Key Physical Metrics

**9**

Mohs Hardness

**3.95 g/cm<sup>3</sup>**

Specific Gravity

**Bulk Density**

1.75-1.95 g/cm<sup>3</sup>

## Available Grits and Sizes

### Section Sand Sizes

- 12-6mm
- 10-8mm
- 8-5mm
- 6-3mm
- 5-3mm
- 3-1mm
- 1-0mm
- 1-0.5mm
- 0.5-0.2mm
- 0.5-0mm
- 0.3-0mm

### Macro Powder Sizes

- 60mesh-0
- 80mesh-0
- 100mesh-0
- 120mesh-0
- 150mesh-0
- 200mesh-0
- 325mesh-0

## Applications

### Typical Applications

Refractory, Furnace Burden, Castable, Ramming Compound, Painting, Precision Grinding, Polishing