

# White Aluminum Oxide Abrasive

White aluminum oxide is a high-purity abrasive material produced by fusing alumina in an electric arc furnace. It is used in grinding wheels, polishing powders, and lapping compounds.



## Product Overview

### High-Purity White Aluminum Oxide

White Aluminum Oxide is a high-purity abrasive produced by melting high-quality alumina in an electric arc furnace at temperatures exceeding 2000 degrees. Featuring a primary crystal phase of alpha-Al<sub>2</sub>O<sub>3</sub>, this material is celebrated for its exceptional hardness and sharp cutting edges. It is a chemically inert, high-performance solution ideal for precision grinding, refractory applications, and surface finishing across ferrous and non-ferrous metals.

## Chemical Composition

### Chemical Composition Table

Component	Value
Al <sub>2</sub> O <sub>3</sub>	99.5% min
Fe <sub>2</sub> O <sub>3</sub>	0.04% max
Na <sub>2</sub> O	0.30% max
SiO <sub>2</sub>	0.02% max

## Physical Properties

### Main Physical Properties

**9**

Mohs Hardness

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

Bulk Density

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

Specific Gravity

## Applications

### Typical Industry Applications

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

## Availability

### Available Particle Sizes (mm)

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