

# White Fused Alumina Abrasive

White fused alumina is a high-purity aluminum oxide abrasive material produced in an electric arc furnace. It is known for its hardness, sharpness, and wear resistance, making it suitable for grinding wheels, coated abrasives, and polishing compounds.



## Product Overview

### High-Purity White Fused Alumina

White Fused Alumina (Al<sub>2</sub>O<sub>3</sub>) is a premium abrasive produced by melting high-quality alumina in electric arc furnaces at temperatures exceeding 2000 degrees Celsius. This material is defined by its exceptional hardness (9.0 Mohs) and high purity, making it ideal for precision applications including grinding, blasting, and refractory production. Its alpha-Al<sub>2</sub>O<sub>3</sub> crystal structure ensures consistent performance and durability across diverse industrial surface treatments.

## Physical Properties

### Key Physical Characteristics

**9**

Mohs Hardness

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

Specific Gravity

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

Average Bulk Density

## Technical Composition

### Chemical Composition Limits

Grade Category	Al <sub>2</sub> O <sub>3</sub> Min %	Fe <sub>2</sub> O <sub>3</sub> Max %
Refractory Grade	99.5	0.04
Powder Grade	99	0.2
Abrasive Grain	99.2	0.08

## Application Domains

### Suitable Industries

Refractory, Abrasives, Ceramics, Surface Treatment, Polishing, Rust Removal, Floor Coating

## Sizing & Granularity

### Available Standards

FEPA • JIS