

# Brown Fused Alumina Abrasive

Brown fused alumina is a hard, wear-resistant abrasive material. It is produced by fusing calcined bauxite in an electric arc furnace and is used in grinding, polishing, and surface preparation.



## ADDITIONAL IMAGES



## Product Overview

### High-Performance Brown Fused Alumina

Brown fused alumina is a premium abrasive material manufactured by fusing high-quality bauxite at temperatures exceeding 2000°C. Known for its dense structure and high hardness, this material offers excellent self-sharpening properties and superior wear resistance. It is an ideal choice for demanding industrial applications ranging from heavy-duty grinding and blasting to precision lapping and refractory production.

## Technical Properties

### Trace Elements

- Silicon Dioxide (SiO<sub>2</sub>)
- Titanium Dioxide (TiO<sub>2</sub>)
- Iron Oxide (Fe<sub>2</sub>O<sub>3</sub>)

### Fusion Temperature

2000 °C

### Key Features

High Hardness, Dense Structure, Self-Sharpening, Wear Resistant, Low Magnetic Property, High Thermal Conductivity

### Primary Component (Al<sub>2</sub>O<sub>3</sub>)

95 %

## Applications

### Industrial Applications

Vitrified Tools • Resin Bonded Tools • Lapping • Polishing • Blasting • Refractory • Anti-slipping Materials

### Compatible Materials

- Ferrous Metals
- Non-ferrous Metals
- Ceramics
- Wood
- Plastic
- Glass