

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-Al₂O₃, 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 ₂ O ₃	99.5% min	99.0% min
Fe ₂ O ₃	0.04% max	0.20% max
Na ₂ O	0.30% max	0.40% max
SiO ₂	0.02% max	0.05% max

Physical Properties

Key Physical Metrics

9

Mohs Hardness

3.95 g/cm³

Specific Gravity

Bulk Density

1.75-1.95 g/cm³

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