



## ► Product Description

Brown Fused Alumina is a synthetically produced aluminium oxide with high toughness and good mechanical strength. It is characterized by its durability, thermal resistance, and consistent performance across various industrial applications.

The material is iron-free and suitable for processes requiring high reliability and controlled grain behaviour.

## ► Technical Properties

Mohs hardness:	9
Melting point:	Approx 2040 °C
Density:	Approx 3.9 g/cm <sup>3</sup>

## ► Chemical Composition (average analysis)

	wt%
Al <sub>2</sub> O <sub>3</sub>	95.2
TiO <sub>2</sub>	2.9
SiO <sub>2</sub>	1.2
Fe <sub>2</sub> O <sub>3</sub>	0.3
CaO + MgO	0.3
Trace elements (Na <sub>2</sub> O, K <sub>2</sub> O, etc.)	≤ 0.01

The chemical composition may vary depending on grain size

## Grain Sizes and Classification

Available according to FEPA standard:

- **Macro grits:** F010 – F220
- **Micro grits:** F230 – F1200

Custom grain size distributions available on request.

## ► Typical Applications

- **Surface Treatment**  
Blasting media (iron-free applications)
- **Abrasives Industry**  
Grinding wheels, sandpapers
- **Refractory Industry**  
Additives for refractory materials
- **Coatings & Flooring**  
Wear-resistant floor coatings

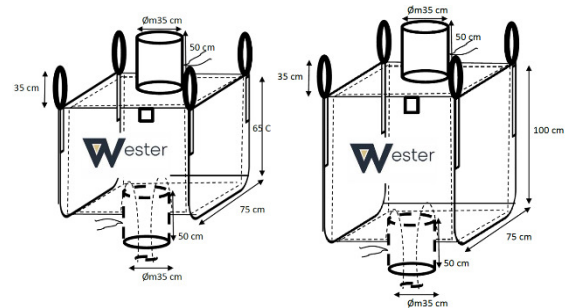


## ► Performance Characteristics

- ▷ high toughness
- ▷ high wear resistance
- ▷ high hardness
- ▷ thermal stability
- ▷ consistent grain distribution

## ► Packaging and Delivery

- ▷ 25 kg paper sacks  
Shipping up to 50 kg per package  
From 75 kg on pallet with shrink hood
- ▷ 0.5 – 1.5 t PP big bags (ISO 21898)  
with or without inliner  
on pallet with shrink hood.
- ▷ Each batch is labelled with:  
product name, batch number, quantity, and production date.



## ► Storage

For optimal product quality:

- ▷ protect from moisture
- ▷ avoid excessive sun exposure
- ▷ store at moderate temperatures
- ▷ reseal opened containers
- ▷ store on stable surfaces

## ► Note

The above information reflects our current experience. Users are responsible for verifying suitability for their specific application. Liability is governed by contractual agreements unless otherwise specified by law.

## ► Contact

If you have any questions regarding shelf life and storage, please feel free to contact us – we will be happy to advise you at any time. The selection of the appropriate grain size and specification depends on the application and process parameters; technical support is also available upon request.