

# White Fused Alumina EK



Coated variant: EK-SIL

## ▶ Product Description

White Fused Alumina is a synthetically produced, iron-free aluminium oxide with high chemical purity and excellent mechanical resistance. The material is characterized by its high hardness, thermal resistance, and wear resistance, making it suitable for applications with the highest demands on precision and process stability.

## ▶ Technical Properties

Mohs hardness:	9
Melting point:	Approx 2040 °C
Thermal conductivity:	approx. 41.9 W/(m·K)
Density:	Approx 3.9 g/cm <sup>3</sup>

## ▶ Chemical Composition (average analysis)

	F 012 - F 220	F 230 - F 240	F 280 - F 360	F 400 - F 600	F 800 - F 1200
	wt%	wt%	wt%	wt%	wt%
Al <sub>2</sub> O <sub>3</sub>	99.42	99.3	99.05	98.79	98.54
SiO <sub>2</sub>	0.07	0.02	0.03	0.12	0.12
Fe <sub>2</sub> O <sub>3</sub>	0.05	0.05	0.06	0.08	0.09
Na <sub>2</sub> O	0.37	0.46	0.74	0.81	1.02
CaO + MgO	0.05	0.05	0.05	0.07	0.11
LOI (1025 °C)	-0.1	-0.1	-0.14	-0.23	-0.43

## ▶ Grain Sizes and Classification

Available according to FEPA standard:

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

Custom grain size distributions available on request.

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## Typical Applications

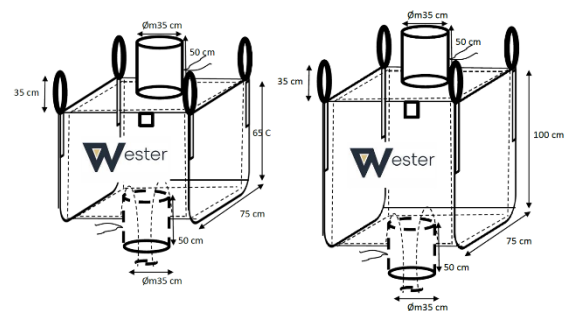
- ▶ **Mechanical Processing**  
Grinding, blasting, and polishing media
- ▶ **Surface & Protection**  
Coatings and wear protection
- ▶ **High Temperature & Ceramics**  
Technical ceramics and refractory materials
- ▶ **Electronics & Energy**  
Electronics and electrical engineering  
Energy sector
- ▶ **Process Industry**  
Filtration and separation  
Chemical industry
- ▶ **Special Applications**  
Medical technology  
Glass and construction industry  
Additive manufacturing

## 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

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## ▶ **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.