

White fused aluminium oxide

Our Type: EK-BMI
sieving acc. Fepa F microgrit*

Description:

Our material is obtained from the fusion of high purity calcined alumina in an electric arc furnace. The grains are characterised by very high hardness and special purity. Due to this, they are specifically recommended for applications, in which impurities are especially critical.

Application:

- Loose abrasive for grinding and polishing
- Blasting

Characteristics:

Spec. gravity:	3.94 g/cm ³	Fusion point:	2040 °C
Hardness:	9 (Mohs)	Bulk density:	approx. 0.8-1.9 g/cm ³

Chemical Analysis (typical):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Na ₂ O	CaO	TiO ₂	MgO	K ₂ O
99.16%	0.20%	0.08%	0.59%	0.05%	0.01%	0.03%	0.03%

Available Grits, Particle Size Distribution (µm) and Bulk Densities (g/cm³):

Grit	D _{S3} max.	D _{S50}	D _{S94} min.	Bulk density
F 230	82	53 ± 3.0	34	1.70 - 1.80
F 240	70	44.5 ± 2.0	28	1.69 - 1.79
F 280	59	36.5 ± 1.5	22	1.55 - 1.65
F 320	49	29.2 ± 1.5	16.5	1.51 - 1.61
F 360	40	22.8 ± 1.5	12	1.45 - 1.55
F 400	32	17.3 ± 1.0	8	1.39 - 1.49
F 500	25	12.8 ± 1.0	5	1.29 - 1.39
F 600	19	9.3 ± 1.0	3	1.17 - 1.27
F 800	14	6.5 ± 1.0	2	0.85 - 0.95
F 1000	10	4.5 ± 0.8	1	0.75 - 0.85
F 1200	7	3.0 ± 0.5	1 (80 %)	0.95 - 1.05

Packing:

In 25-kg-bags on pallets of 1 MT shrinkfoiled or in 1 MT Big Bags.

Complies with following specifications and standards:

- AA – 59316, Type 1 – Grades A, B, C
- GE Aircraft Engine Specifications D5OTF5-S9 Classes A, D
- Pratt & Whitney PMC Specifications

31.03.2025

This technical information is given according to today's knowledge and can be subject to changes.

*Sieving is determined according to Fepa Standard 42-2:2006; bulk density according to FEPA Standard 44-2:2006.