

White Fused Aluminium Oxide

Type:: WAE-17

It is a kind of white fused alumina electrically fused in arc furnace with high grade processed alumina as raw material. It has higher hardness and slight lower toughness comparing with brown fused alumina. It is also characterized by its high purity, ability of self-sharpening, better cutting, less heat emit, higher efficiency, acid and alkali resistance, good thermal stability.

As an abrasive, it is suitable for grinding high-speed, high carbon steel, as loose grains, it widely used for polishing, precision casting, spring and coating.



Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	Na ₂ O	SiO ₂	CaO	TiO ₂
99.47%	0.05%	0.25%	0.12%	0.01%	0.008%

Physical Properties

Color	Brilliant white
Shape	Angular and sharp
Crystal Form	Alpha-alumina
True Specific Gravity	3.95 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Refractory Degree	About 1800 °C
Magnetic Material	0.0035%

Grit Sizes (F)

8	12	14	16	20	22	24	30	36	40	46	54	60	70	80	90
100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F24	F30	F36	F46
B.D	1.99	1.96	1.93	1.87	1.87	1.87	1.85	1.80
Grit No	F60	F70	F80	F100	F120	F150	F180	F220
B.D	1.76	1.74	1.70	1.69	1.67	1.64	1.60	1.55

Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

- In 25kg plastic woven bags.
- In 1000kg big bag.
- 40 x 25kg plastic woven bags in one big bag.
- 40 x 25kg plastic woven bags on pallet.
- 40 x 25kg paper bags on pallet.
- According to client's special requirement.

