



TECHNICAL DATA SHEET

WHITE FUSED Alumina

1. White Fused Alumina was made from the high quality alumina oxide by melting above 2000 in the electric arc furnace and cooling. It is white with the main crystal phase $\alpha\text{-Al}_2\text{O}_3$.

The white alumina produced in our titling electric arc furnace has the advantage of Customization bulk density ,particle size and particle shape.

Meanwhile, products' thermal shock resistance and volume stability has been greatly improved.

2. Physical properties

Specific Weight	1.5-1.99g/ cm ³
Mohs Hardness	9
Crystal form	$\alpha\text{-Al}_2\text{O}_3$
Melting Point	2250°C

3. Typical Chemical Analysis [%]

Size	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	K ₂ O
0-1mm 1-3mm 3-5mm 5-8mm	≥99.5	≤0.06	≤0.02	≤0.02	≤0.30	≤0.02

Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	FeO	MgO	CaO	TiO ₂	Na ₂ O	K ₂ O	LOI
>99%	0.03-0.10%	≤0.02%	/	≤0.01%	≤0.01%	/	≤0.35%	≤0.02%	< 0.09%

4. Particle Size Distribution

F20	+1700um	0	+1180um	≤20%	+1000um	≥45%	+1000+850um	≥70%	-710um	≤3%
F22	+1400um	0	+1000um	≤20%	+850um	≥45%	+850+710um	≥70%	-600um	≤3%
F24	+1180um	0	+850um	≤25%	+710um	≥45%	+710+600um	≥65%	-500um	≤3%
F30	+1000um	0	+710um	≤25%	+600um	≥45%	+600+500um	≥65%	-425um	≤3%
F36	+850um	0	+600um	≤25%	+500um	≥45%	+500+425um	≥65%	-355um	≤3%
F46	+600um	0	+425um	≤30%	+355um	≥40%	355+300um	≥65%	-250um	≤3%
F54	+500um	0	+355um	≤30%	+300um	≥40%	+300+250um	≥65%	-212um	≤3%
F60	+425um	0	+300um	≤30%	+250um	≥40%	250+212um	≥65%	-180um	≤3%
F70	+355um	0	+250um	≤25%	+212um	≥40%	+212+180um	≥65%	-150um	≤3%
F80	+300um	0	+212um	≤25%	+180um	≥40%	+180+150um	≥65%	-125um	≤3%
F90	+250um	0	+180um	≤20%	+150um	≥40%	+150+125um	≥65%	-106um	≤3%
F100	+212um	0	+150um	≤20%	+125um	≥40%	+125+106um	≥65%	-75um	≤3%
F120	+180um	0	+125um	≤20%	≥40%	≥40%	+106+90um	≥65%	-63um	≤3%
F150	+150um	0	+106um	≤15%	+75um	≥40%	+75+63um	≥65%	-45um	≤3%
F180	+125um	0	+90um	≤15%	+75um	*	+75+63um	≥40%	-53um	*
F220	+106um	0	+75um	≤15%	+63um	*	+63+53um	≥40%	-45um	*

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Size	D3(um)	D50(um)	D94 (um)
F230	<82	53.0±3.0	>34
F240	<70	44.5±2.0	>28
F280	<59	36.5±1.5	>22
F320	<49	29.2±1.5	>16.5
F360	<40	22.8±1.5	>12
F400	<32	17.3±1.0	>8
F500	<25	12.8±1.0	>5
F600	<19	9.3±1.0	>3
F800	<14	6.5±1.0	>2
F1000	<10	4.5±0.8	>1
F1200	<7	3.0±0.5	>1(at 80%)
F1500	<5	2.0±0.4	>0.8(at 80%)
F2000	<3.5	1.2±0.3	>0.5(at 80%)

5. Application

- the ideal raw material for refractory products, such as stopper;
- grinding, fitting of parts made of different grades of steel;
- giving the surface of metal products, glass, granite a slight roughness, for example, when matting;
- metallurgy - used for the deposition of a non-stick layer of molds;
- production of grinding and grinding wheels, bars, sandpaper;
- it is added to the composition in the production of ceramic insulators for radio components.

6. Packing

- 1) 25KG PP & PE BAG
- 2) 25KG PP & PE BAG, 40 BAG PER TON BAG
- 3) TON BAG
- 4) 25KG PP & PE BAG, 40 BAG PER PALLET



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7. Package photo



1) 5KG PP & PE BAG

2) 25KG PP & PE BAG, 40 BAG PER TON BAG



3) TON BAG

4) 25KG PP & PE BAG, 40 BAG PER PALLET

Web: <http://www.fortressabrasives.com/>