

WHITE FUSED ALUMINA

Product Information



WFA used for Bonded Abrasives & Sand Blasting Application

WFA is made from high grade alumina powder being fused at above 2050°C in the electric arc furnace. It is a high strength, high hardness material with pure white color and sharp edges. It has high purity & high bulk density, better cutting efficiency, excellent wear-resistance and high compression strength.

Due to its good properties, it's widely used in Abrasives industry, particularly suitable for vitrified and resin grinding wheels, cutting discs, drill points, or snagging wheels; wood, metal or stone polishing or finishing; as fine blasting media, and anti-slip flooring application.



Physical Properties

Crystal Structure	:	Alpha - Alumina
Shape	:	Cubic and Angular and Sharp
Color	:	Pure White
Melting Point	:	2150°C
Bulk Density	:	1.50-1.95g/cm ³
True Density	:	≥ 3.95g/cm ³
Mohs Hardness	:	≥9.2
Knoop Hardness	:	2200 - 2300kg/mm ²

Chemical Composition

Chemical Composition (% , by weight)

Grade	Grits	Sizes	Al ₂ O ₃	NA ₂ O	Fe ₂ O ₃	SiO ₂	BULK DENSITY
WA	Macro size	F12-F220	99.4%Min	<0.3%	<0.10%	<0.10%	1.65-1.95g/cm ³
	Micro size	F240-F1200	99.0%min	<0.30%	<0.10%	<0.10%	1.45-1.65g/cm ³

* Custom chemistry is available upon request.

Available Grit Sizes

We offer WFA in Macro and Micro grains In accordance with the current FEPA / JIS / ANSI sieve standards.

For Bonded Abrasives Application:

FEPA F

Macro: F12, F24, F30, F36, F40, F46, F54, F60, F80, F100, F120, F150, F180, F220

Micro: F240, F280, F320, F360, F400, F500, F600, F800, F1000, F1200

FEPA F12-F1200 ((Sediment Tube Particle Size Analyzer)

Macro Grits			Micro Grits		
Grit	Average Grain Size (um)	Bulk Density (g/cm ³)	Grit	D50% Value (um)	D94% Value Min.
F12	2000-1700	1.81 - 1.93	F230	55.7±3.0	34
F14	1700-1400	1.81 - 1.93	F240	47.5±2.0	28
F16	1400-1180	1.81 - 1.91	F280	39.9±1.5	22
F20	1180-1000	1.80 - 1.90	F320	32.8±1.5	16.5
F22	1000-850	1.79 - 1.89	F360	26.7±1.5	12
F24	850-710	1.78 - 1.88	F400	21.4±1.0	8
F30	710-600	1.77 - 1.87	F500	17.1±1.0	5
F36	600-500	1.77 - 1.87	F600	13.7±1.0	3
F40	500-425	1.76 - 1.86	F800	11.0±1.0	2
F46	425-355	1.76 - 1.86	F1000	9.1±0.8	1
F54	355-300	1.75 - 1.85	F1200	7.6±0.5	1(at 80%)
F60	300-250	1.74 - 1.84			
F70	250-212	1.73 - 1.83			
F80	212-180	1.70 - 1.80			
F90	180-150	1.68 - 1.78			
F100	150-125	1.67 - 1.75			
F120	125-106	1.65 - 1.75			
F150	106-75	1.63 - 1.73			
F180	90-63	1.60 - 1.70			
F220	75-53	1.59- 1.69			

Packaging

Standard Packaging:

- Big bags(1000kgs , 1250kgs, 1350kgs) with or without pallets;
- 20 or 25kg plastic.or paper bags, with or without pallets.

*Custom Packaging is available upon request



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