

WHITE FUSED ALUMINA

Product Information



WFA used for Coated Abrasives Application

White Fused Alumina is made from high-purity alumina powder fused in an electric arc furnace at above 2050°C.

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 used widely in high quality Coated Abrasives for surface preparation and finishing, such as sanding sheets, belts, rolls, flap discs, fiber discs etc.



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-P	Macro size	P12-P220	99.4%Min	<0.30%	<0.10%	<0.10%	1.65-1.95g/cm ³
	Micro size	P240-P2500	99.0%min	<0.30%	<0.10%	<0.10%	1.55-1.65g/cm ³

Note: 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 Coated Abrasives Application:

FEPA P

Macro :P24, P30, P36, P40, P50, P60, P80, P100, P120, P150, P180, P220

Micro:P240, P280, P320, P360, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500

FEPA P12-P2500 (Sediment Tube Particle Size Analyzer)

Macro Grits			Micro Grits		
Grit	Mean Diameter (μm)	B.D (g/cm^3)	Grit	Medium Grain Size Ds50-value (UM)	Ds95 min (μm)
P12	1815	1.81 - 1.93	P240	58.5 \pm 2	44.5
P16	1324	1.81 - 1.93	P280	52.2 \pm 2	39.2
P20	1000	1.81 - 1.91	P320	46.2 \pm 1.5	34.2
P24	764	1.80 - 1.90	P360	40.5 \pm 1.5	29.6
P30	642	1.79 - 1.89	P400	35.0 \pm 1.5	25.2
P36	538	1.78 - 1.88	P500	30.2 \pm 1.5	21.5
P40	425	1.77 - 1.87	P600	25.8 \pm 1	18.0
P46	336	1.77 - 1.87	P800	21.8 \pm 1	15.1
P54	336	1.76 - 1.86	P1000	18.3 \pm 1	12.4
P60	269	1.76 - 1.86	P1200	15.3 \pm 1	10.2
P80	201	1.75 - 1.85	P1500	12.6 \pm 1	8.3
P100	162	1.74 - 1.84	P2000	10.3 \pm 0.8	6.7
P120	125	1.73 - 1.83	P2500	8.4 \pm 0.5	5.4
P150	100	1.70 - 1.80			
P180	82	1.68 - 1.78			
P220	68	1.67 - 1.75			

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



Zhengzhou Jingcheng Abrasives Co.,Ltd

Email: sales@zzjcabrasives.com

Tel /Fax : 0371-6397-7511, 0371-63977311

Wechat: YZ8100778

Website : <http://www.zzjcabrasives.com>

ADD. : No.112 Wenhua Road, Zhengzhou City,China