

WHITE FUSED ALUMINA

Product Information



WFA Description

White Fused Alumina is made from high-purity alumina powder 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 refractoriness degree, superior electrical insulating properties, outstanding chemical stability, high corrosion & thermal shock resistance, which makes it a desirable material choice for Abrasives & Refractories 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

Types	Grits and Sizes	Al ₂ O ₃	Na ₂ O	SiO ₂	Fe ₂ O ₃
WA-F	F12-F220	≥99.40	≤0.30	≤0.10	≤0.10
	F230-F1200	≥99.0%	≤0.30	≤0.10	≤0.10
WA-P	P12-P220	≥99.40	≤0.30	≤0.10	≤0.10
	P240-P2500	≥99.0%	≤0.30	≤0.10	≤0.10
WA-R	Macro sizes	≥99.40	≤0.30	≤0.10	≤0.10
	Fine Powder	≥99.0%	≤0.35	≤0.10	≤0.10

Note: Custom chemistry is available upon request.

Available Grit Sizes

We offer WFA in Macro and Micro grains complying 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

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

JIS

JIS240, JIS280, JIS320, JIS360, JIS400, JIS500, JIS600, JIS700, JIS800, JIS1000, JIS1200, JIS1500, JIS2000,

JIS2500, JIS3000, JIS4000, JIS6000, JIS8000

For Refractories Application:

Macro sizes : 0-1mm,0.5-1 mm,1-2mm , 1-3mm, 2-3mm ,3-5mm, 5-8mm, 0-10mm,0-25mm...

Fine powder:

0-0.1mm, 0-0.2mm, 0-0.35mm,0-0.5mm,0.1-0.5mm,0.2-0.5mm

-200mesh, -325mesh..

Noted: Custom sizes and shaped are also available upon request.

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.

Application

-Bonded Abrasives: Such as grinding wheels, cutting wheels, and cutting discs.

-Coated Abrasives: Such as sandpaper and sanding belts.

-Blasting Media: For cleaning, removal and surface treatment of metal and non-metal products.

-Lapping and Polishing: Powders used in products and processes for precision finishing of metals, glass and other products.

-Flooring: Floor wear-resistant sand

-Glass and advanced ceramics

-Shaped and unshaped refractories used in steel, Foundries,Cement industries

petrochemicals , casting laminates and hundreds of other applications

(such as Corundum bricks,Corundum and mullite Corundum saggars, Steel-making long nozzles...

Blast furnace iron through castables, Ramming materials, Large-scale ladle casting materials...)



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