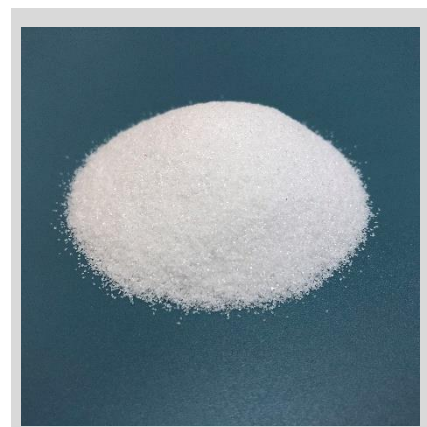




White Fused Alumina (WA)

White fused alumina is produced by bayer alumina in an electric arc furnace at high temperatures. The product shows higher hardness and lower toughness than that of brown fused alumina. The materials are used to grind high carbon steel, high speed steel and chilled steel. It can also be used as polishing materials and precision founding sand, spraying and coating materials, catalyst carrier, special ceramics and super refractory materials.



Grain Usages and Types			
Usage	For vitrified wheels, organic wheels	For coated abrasives	For refractory materials
Type	WA	WA-P	WA-R

Physical Characteristics					
Item	Basic mineral	Crystal system	Crystal color	Mohs hardness	Density
White fused alumina	α - Al ₂ O ₃	Hexagonal	White	9	$\geq 3.90\text{g/cm}^3$
Item	Micro hardness	Electrical resistivity	Grinding ability (compared with diamond as one)	Linear expansion coefficient (when 900°C $\alpha \cdot 10^{-6}\text{k}^{-1}$)	
White fused alumina	HV2200-2300	10^{14} - $10^{16}\Omega \cdot \text{cm}$	0.12	8.3	



Chemical Composition (GB/T 2479-2008)			
Type	Grit	Chemical composition (% , by weight)	
		Al ₂ O ₃	Na ₂ O
WA	F4-F80	≥99.10	≤0.35
	F90-F150	≥99.10	≤0.40
	F180-F220	≥98.60	≤0.50
	F230-F800	≥98.30	≤0.60
	F1000-F1200	≥98.10	≤0.70
WA-P	P12-P80	≥99.10	≤0.35
	P100-P150	≥99.10	≤0.40
	P180-P220	≥98.60	≤0.50
	P240-P800	≥98.30	≤0.60
	P1000-P1200	≥98.10	≤0.70
	P1500-P2500	≥97.50	≤0.90
WA-R	0-1mm	≥99.00	≤0.50
	1-3mm	≥99.00	≤0.50
	3-5mm	≥99.00	≤0.50
	5-8mm	≥99.00	≤0.50

Note: Special requirement on chemical composition can be satisfied through discussion.

Optional Particle Sizes	
Product Category	Particle Size
WA	F12-F220, F240-F1200, JIS240#-8000# etc.
WA-P	P12-P220, P240-P3000 etc.
WA-R	0-1MM, 1-3MM, 3-5MM, 5-8MM, etc.

Note: Special specification can be customized according to customer's requirements.