

Brown Fused Aluminum Oxide Grit

(AlO₂):≈ 95.5%

(TiO₂):2.7%

(SiO₂) No Free:0.67%

(Fe₂):0.25%

Crystal Form:Alpha Alumina

Specific Gravity:3.95 gm/cc

Bulk Density:132 lbs/ ft³ (depends on size)

Hardness:KNOPPS = 2000, MOHS = 9

Melting Point:2,000° C



Brown fused alumina is a tough, hard material (Mohs hardness 9) with high strength, excellent wear and corrosion resistance and good thermal conductivity. It is produced by controlled melting of calcined bauxite in an electric arc furnace. Furthermore, BFA is the perfect media for removing rust, mill scale, and surface contamination due to its high bulk density and hardness. The consistent particle size allows for a uniform surface finish and coverage.

Additionally, BFA has a low friability which allows it to be recirculated on average, up to seven times. These characteristics reduce abrasive consumption, clean up, and disposal costs, increasing profitability.

Chemical Composition

For abrasive application

Code & Grit Size		Composition				Magnetic Material Content (%)
		% Al ₂ O ₃	% Fe ₂ O ₃	% SiO ₂	% TiO ₂	
F	4#—80#	≥95	≤0.3	≤1.5	≤3.0	≤0.05
	90#—150#	≥94				≤0.03
	180#—240#	≥93	≤0.3	≤1.5	≤3.5	≤0.02

P	8#—80#	≥95.0	≤0.2	≤1.2	≤3.0	≤0.05
	100#—150#	≥94.0				≤0.03
	180#—220#	≥93.0				≤0.02
W	1#-63#	≥92.5	≤0.5	≤1.8	≤4.0	—

For refractory material application

Code & Grit Size		Chemical Composition (%)				Magnetic Material Content (%)
		Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	TiO ₂	
Size Sand	0-1mm 1-3mm 3-5mm 5-8mm 8-12mm	≥95	≤0.3	≤1.5	≤3.0	—
	25-0mm 10-0mm 50-0mm 30-0mm	≥95	≤0.3	≤1.5	≤3.0	—
Fine Powder	180#-0 200#-0 320#-0	≥94.5 ≥93.5	≤0.5	≤1.5	≤3.5	—

Available Grit Sizes

Grits	0-1mm 1-3mm 3-5mm 5-8mm
Fines	200#-0 320/325-0
Grains	12# 14# 16# 20# 22# 24# 30# 36# 40# 46# 54# 60# 70# 80# 90# 100# 120# 150# 180# 220#
Powder	#240 #280 #320 #360 #400 #500 #600 #700 #800 #1000 #1200 #1500 #2000 #2500

Application

Brown Fused Alumina is used for many applications, including refractory, abrasive material, sand-blasting, functional filter and resin grinder. It's suitable for wet or dry surface preparation, cleaning, deburring and cutting of various metals, ceramics, glass, wood, rubber, plastic, stone and composite materials.

Brown Fused Alumina For Refractory:

0-1/1-3/3-5/5-8mm

Brown Fused Alumina For Abrasives, bonded abrasives:

F4/F8/F10/F12/F14/F16/F20/F22/F24/F30/F36/F40/F46/F54/F60/F80/F100/F120/F150/F180/F200
/F220/F240 /F280/F320/F325

Brown Fused Alumina For Coated abrasives, abrasive paper, abrasive cloth:

P200/P220/P240/P280/P320/P325/P400/P600/P800/P1000/P1200/P1500/P2000

Brown Fused Alumina For Coating, polishing, grinding:

w2.5/W3/W5/W7/W10/W14/w20/W40