



## Brown Fused Alumina Grain



Brown fused alumina Grit is made from bauxite by the fusing process in fixing or tilting furnaces with Auxiliary material such as Carbon material and iron filings. Brown fused alumina gets higher toughness than white fused alumina. And the self-sharpening ability is a little lower than WFA. By removing Fe<sub>2</sub>O<sub>3</sub> treatment, it gets low Ferro and low Silica content in brown fused alumina grains.

Brown fused alumina grit is a basic abrasive grain for making abrasive tools and abrasive blasting. It features High hardness, toughness,density and refractoriness.

Chemical Composition(%)	
Al <sub>2</sub> O <sub>3</sub>	93.5-96.5
SiO <sub>2</sub>	1.0max
TiO <sub>2</sub>	2.4-3.0
Fe <sub>2</sub> O <sub>3</sub>	0.3max

Physical Properties	
Hardness:	Mohs:9.0
Max service temperature:	1850 °C
Melting Point:	2050 °C
Specific Gravity:	3.9g/cm <sup>3</sup>
Volume density	3.8g/cm <sup>3</sup>
Bulk density(LPD):	1.55-2.1 g/cm <sup>3</sup>
Color:	Brown
Particle shape:	Angular

Application:	
Sandblasting & surface treatment	
Bonded abrasive tools	
Vitrified abrasive tools	
Anti-slip flooring	
Waterjet cutting media	

Available Sizes	
F grit Size	Bulk Density(LPD) in g/cm <sup>3</sup>
F12	2.02-2.10
F14	2.00-2.08
F16	1.97-2.05
F20	1.94-2.02
F22	1.92-2.00
F24	1.90-1.98
F30	1.88-1.96
F36	1.87-1.95
F40	1.81-1.89
F46	1.79-1.87
F54	1.77-1.85
F60	1.76-1.84
F70	1.75-1.83
F80	1.73-1.81
F90	1.71-1.79
F100	1.64-1.72
F120	1.61-1.69
F150	1.59-1.67
F180	1.57-1.65
F220	1.55-1.63

\*The above bulk density range is for tilting furnace.