

## BTUS - BROWN ALUMINUM OXIDE

Brown Fused Alumina ( $Al_2O_3$ ) for refractory and abrasive

### ABOUT:

BTUS is a brown fused aluminum oxide obtained from the reduction fusion of high quality bauxites in an electric arc furnace.

### APPLICATIONS:

Due to its high toughness, BTUS is recommended for use in bonded abrasives (grinding wheels, cutoff wheels, points, etc...), coated abrasives (paper & cloth), blasting abrasives, as well as refractory applications.

### Typical Physical Properties

Crystal Structure	Melting Point	Hardness	
$\alpha$ -alumina macro crystals from trigonal class, hexagonal system	3668°F (2020°C)	Knoop: 2,100 kg/cm <sup>2</sup> Mohs: 9	
Toughness (ANSI-B74.8.1987)	True Specific Gravity	Color	Fired Color
50%	3.92 g/cm <sup>3</sup>	Brown	Blue

### High Density Products (g/cc)

Grit Size	Min-Max
16	1.98 - 2.08
20	1.94 - 2.04
24	1.91 - 2.01
30	1.88 - 1.98
36	1.82 - 1.92
46	1.80 - 1.90
54	1.79 - 1.89
60	1.77 - 1.87
70	1.74 - 1.84
80	1.69 - 1.79
90	1.67 - 1.77
100	1.67 - 1.77
120	1.65 - 1.75

### Typical Chemical Analysis by XRF (%)

Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O
95.62	2.84	0.78	0.20	0.33	0.11	0.07	0.05

### Available Sizes

Mesh	Macro	Micro
Refractory split sizes	16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220 grits	F240, 280, 320, 360, 400, 500, 600, 800, 1000, 1200 grits

Other sizes available upon request.

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