

## BTTX >> BROWN ALUMINUM OXIDE

Brown Fused Alumina ( $Al_2O_3$ ) for Refractory & Abrasive

BTTX is a brown aluminum oxide obtained from the reduction of high quality bauxite in an electric arc furnace.

### Applications:

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

### Typical Physical Properties

True Specific Gravity	Melting Point	Hardness (Knoop - 100)
3,92 g/cc	3,668°F 2,020°C	2,100 kgf/mm <sup>2</sup> 9 Mohs
Toughness (ANSI-B74.8.1987)	Color	Fired Color
50	Brown	Blue
Crystal Structure		
α - alumina macro crystals from trigonal class, hexagonal system		

### Typical Chemical Analysis (%)

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	Refractory Splits
Standard Sizes	3/4x3/8, 3/8x3, 3/6, 6/16, 10/30, 14MF, 16/35, 16/50, 20MF, 30/100, 50MF, 100MF, 200MF, 325MF and DCF

Other sizes available upon request

### Product Density Specification – (g/cc)

Grit Size	Min - Max
10	1.88 - 1.98
12	1.88 - 1.98
14	1.88 - 1.98
16	1.86 - 1.96
20	1.86 - 1.96
24	1.86 - 1.96
30	1.86 - 1.96
36	1.86 - 1.96
40	1.80 - 1.90
46	1.80 - 1.90
54	1.78 - 1.88
60	1.75 - 1.85
70	1.73 - 1.83
80	1.68 - 1.78
90	1.68 - 1.78
100	1.64 - 1.74
120	1.62 - 1.72
150	1.61 - 1.71
180	1.58 - 1.68
220	1.56 - 1.66

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