

BTTX - BROWN ALUMINUM OXIDE

Brown Fused Alumina (Al₂O₃) for refractory and abrasive

ABOUT: 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

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

Bulk Density (g/cc)

Grit Size	(R)
10	1.93
12	1.93
14	1.93
16	1.91
20	1.91
24	1.91
30	1.91
36	1.91
40	1.85
46	1.85
54	1.83
60	1.85
70	1.78
80	1.73
90	1.73
100	1.69
120	1.67
150	1.66
180	1.63
220	1.61

Typical Chemical Analysis by XRF (%)

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

Available Sizes

Mesh	Macro
Refractory split sizes	16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220 grits

Other sizes available upon request.

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