

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	
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/cm ³	Brown	Blue

Typical Chemical Analysis by XRF (%)

Al_2O_3	TiO_2	SiO_2	Fe_2O_3	MgO	CaO	Na_2O	K_2O
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.

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

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