

## BT - BROWN ALUMINUM OXIDE

Brown Fused Alumina ( $Al_2O_3$ ) for bonded abrasives

BT is a brown fused aluminum oxide obtained by a reduction fusion of high quality bauxites in electric arc furnaces. Due to its high toughness, BT is recommended for high performance grinding wheels.

### Typical Physical Properties

True Specific Gravity	Knoop 100 Hardness	Toughness (ANSI-B74.8R2007)
3.96 g/cm <sup>3</sup>	1,850 kg/cm <sup>2</sup>	52%

### 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
95.61	2.55	0.90	0.23	0.32

### Types of Treatment

	Not Treated	Red Coated (RC)*	Silane Treated (ST)*
Super Angular	BTL D R	BTL D RC R	BTL D ST R
Angular	BT R	BT RC R	BT ST R

### Bulk Density (g/cm<sup>3</sup>)

Grit Size	(L) sharp
12	1.93
16	1.93
20	1.89
24	1.89
30	1.85
36	1.80
40	1.82
50	1.79
60	1.77
80	1.72
100	1.70
120	1.67
150	1.63
180	1.63
220	1.62

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\*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm<sup>3</sup>

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