U.S. ELECTROFUSED MINERALS, INC.

600 Steel Street, Aliquippa, PA 15001
Phone: 800-927-8823 ▪ info@usminerals.com
www.usminerals.com

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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/cm³	1,850 kg/cm²	52%

Typical Chemical Analysis by XRF (%)

Al_2O_3	TiO_2	SiO_2	Fe_2O_3	MgO
95.61	2.55	0.90	0.23	0.32

Types of Treatment

	Not Treated	Red Coated (RC)*	Silane Treated (ST)*
(LD)	BTLD R	BTLDRC R	BTLDST R
(R)	BT R	BTRC R	BTST R
(HD)	BTHD R	BTHDRC R	BTHDST R

Bulk Density (g/cm³)

Grit Size	(LD) sharp	(R) cubic	(HD) super cubic
10	1.79	1.90	2.01
12	1.80	1.91	2.02
14	1.80	1.91	2.02
16	1.79	1.80	2.01
20	1.79	1.80	2.01
22	1.79	1.80	2.01
24	1.78	1.89	2.00
30	1.77	1.88	1.99
36	1.77	1.88	1.99
40	1.75	1.86	1.97
46	1.74	1.85	1.96
54	1.70	1.81	1.92
60	1.68	1.79	1.90
70	1.65	1.76	1.87
80	1.63	1.74	1.85
90	1.60	1.71	1.83
100	1.58	1.69	1.80
120	1.55	1.66	1.77
150	1.54	1.65	1.76
180	1.51	1.62	1.73
220	1.49	1.60	1.71

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*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm³

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