



BT — BROWN ALUMINUM OXIDE

BROWN FUSED ALUMINA (AL₂O₃) FOR COATED ABRASIVES

ABOUT:

BT is a brown 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 coated abrasives.

TYPICAL CHEMICAL ANALYSIS	
Al ₂ O ₃	95.69%
TiO ₂	2.66
SiO ₂	0.83
Fe ₂ O ₃	0.28
MgO	0.29

TYPICAL PHYSICAL PROPERTIES	
Specific Gravity:	3.96 g/cc
Knoop 100 Hardness:	1850 kg/cm ²
Toughness:	48% (ANSI-B74.8 R2007)

TYPES OF TREATMENT		
Treatment	SHAPE	
	Super Angular	Angular
Not Treated	BTL D L	BT L
Red Coated (RC)*	BTL DRC L	BT RC L
Silane Treated (ST)*	BTL DST L	BT ST L

Grit Size	BULK DENSITY (g/cc)			Grit Size	LD L	L
	LD L	L	L			
12	1.80 - 1.90	1.88 - 1.98		60	1.62 - 1.72	1.70 - 1.80
16	1.80 - 1.90	1.88 - 1.98		80	1.59 - 1.69	1.67 - 1.77
20	1.76 - 1.86	1.84 - 1.94		100	1.57 - 1.67	1.65 - 1.75
24	1.76 - 1.86	1.84 - 1.94		120	1.54 - 1.64	1.62 - 1.72
30	1.72 - 1.82	1.80 - 1.90		150	1.50 - 1.60	1.58 - 1.68
36	1.69 - 1.79	1.77 - 1.87		180	1.50 - 1.60	1.58 - 1.68
40	1.68 - 1.78	1.76 - 1.86		220	1.49 - 1.59	1.57 - 1.67
50	1.64 - 1.74	1.72 - 1.82				

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

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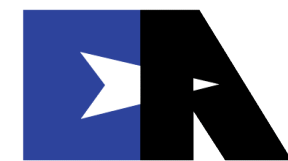
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BT — BROWN ALUMINUM OXIDE

BROWN FUSED ALUMINA (AL₂O₃) MICROGRITS FOR COATED ABRASIVES

ABOUT:

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 CHEMICAL ANALYSIS

Al ₂ O ₃	94.76%
TiO ₂	3.10
SiO ₂	1.12
Fe ₂ O ₃	0.35
MgO	0.37

TYPICAL PHYSICAL PROPERTIES

Specific Gravity:	3.96 g/cc
Knoop 100 Hardness:	1850 kg/cm ²

GRIT SIZE SPECIFICATIONS

Grit	Ds 0 (µm) Maximum	Ds 3 (µm) Maximum	Ds 50 (µm)		Ds 94 (µm) Minimum
			Minimum	Maximum	
F240	110.0	81.7	56.5	60.5	44.5
F280	101.0	74.0	50.2	54.2	39.2
F320	94.0	66.8	44.7	47.7	34.2
F360	87.0	60.3	39.0	42.0	29.6
F400	81.0	53.9	33.5	36.5	25.2
F500	77.0	48.3	28.7	31.7	21.5
F600	72.0	43.0	24.8	26.8	18.0
F800	67.0	38.1	20.8	22.8	15.1

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*Other grit sizes available upon request

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